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1. **[Jack Watkins, 5 years old...]; [Final Edition]**
   Janet Wilson. **Austin American Statesman.** Austin, Tex.: Mar 12, 2006. p. J.14
   Abstract | Full text

2. **PASS Launches Virtual Travel Office:**
   PR Newswire. New York: Jun 7, 2005. p. 1
   Abstract | Full text

3. **/R E P E A T/ - Five simple fares for flying Air Canada: Airline leads the way to next level of convenience with elimination of "Saturday Stay, Round Trip" rules**
   Canada NewsWire. Ottawa: Oct 18, 2004. p. 1
   Abstract | Full text

4. **Five simple fares for flying Air Canada: Airline leads the way to next level of convenience with elimination of "Saturday Stay, Round Trip" rules**
   Canada NewsWire. Ottawa: Oct 17, 2004. p. 1
   Abstract | Full text

5. **Five simple fares for flying Air Canada: Airline leads the way to next level of convenience with elimination of "Saturday Stay, Round Trip" rules**
   PR Newswire. New York: Oct 17, 2004. p. 1
   Abstract | Full text

6. **Survey: Click to fly;**
   The Economist. London: May 15, 2004. Vol. 371, Iss. 8375; p. 8
   Abstract | Full text

7. **War, economy and technology have made impact on travelers' agendas; [Five-star Edition]**
   JERRY & JAN MICHAELSON. **News Sentinel.** Knoxville, Tenn.: Nov 30, 2003. p. F.6
   Abstract | Full text

8. **NORTHWEST AIRLINES: Northwest launches redesigned nwa.com, offering travelers a web site that's easier to use; Re-designed site displays airlines new corporate identity with simpler layout; Airline offers four frequent flyer bonus mileage promotions for using nwa.com**
   M2. Aug 28, 2003. p. 1
   Abstract | Full text

9. **NORTHWEST AIRLINES: Northwest launches redesigned nwa.com, offering travelers a web site thats easier to use; Re-designed site displays airlines new corporate identity with simpler layout; Airline offers four frequent flyer bonus mileage promotions for using nwa.com**
M2. Aug 26, 2003. p. 1
Abstract | Full text

10. **GetThere: GetThere to introduce Internet and supplier-direct travel content for European businesses**
M2 Presswire. Coventry: Jun 12, 2003. p. 1
Abstract | Full text

11. **Orbitz for Business Unveiled Offering First-to-Market, Low Cost Online Travel Booking Tools**
PR Newswire. New York: Jul 15, 2002. p. 1
Abstract | Full text

12. **DELTA AIR LINES: Technology by ITA Software to offer customers more travel options; Delta first airline to implement industry-leading fare search**
M2 Presswire. Coventry: Dec 19, 2001.
Abstract | Full text

13. **Delta First Airline to Implement Industry-Leading Fare Search Technology by ITA Software to Offer Customers More Travel Options**
PR Newswire. New York: Dec 19, 2001. p. 1
Abstract | Full text

14. **UK Government: Government points tourism in the right direction**
M2 Presswire. Coventry: Mar 7, 2001. p. 1
Abstract | Full text

15. **VRX Studios and CANOE.ca Make Navigating Travel Options Easier**
Canada NewsWire. Ottawa: Mar 6, 2001. p. 1
Abstract | Full text

16. **Sport and Boat Show to Open at Cow Palace; [FINAL Edition]**
San Francisco Chronicle. San Francisco, Calif.: Jan 11, 2001. p. D.11
Abstract | Full text

17. **Tripeze.com Unveils World-Renowned 'Rough Guides' Travel Guide Content on Made-in-Canada Travel Booking Web Site**
Canada NewsWire. Ottawa: Sep 5, 2000. p. 1
Abstract | Full text

18. **Today.com and Affinity Travel Announce Letter of Intent for New Website Using WebWare Technology**
Business Editors/Technology Writers. **Business Wire.** New York: Jan 19, 1999. p. 1
Abstract | Full text

19. **COMPUTE SOME COLOR INTO YOUR LIFE; [FINAL Edition]**
CAROL HORTON, PILOT ONLINE STAFF. **Virginian - Pilot.** Norfolk, Va.: Sep 22, 1997. p. D.5
Abstract | Full text

20. **BUS PLAN BOOSTS SOUTH KING SERVICE / SUBURBAN TRANSIT HUBS WOULD BE CREATED UNDER METRO PROPOSAL**
Heath Foster / The News Tribune. **The News Tribune.** Tacoma, Wash.: May 24, 1995. p. B.1

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1711 documents found for: *(expedia or travelocity) AND PDN(<1/1/2000)* » Refine Search | Set Up Alert

All sources | Scholarly Journals | Magazines | Trade Publications | Newspapers

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1. **The site-seers guide**
Mark Anstead. **Director.** London: Jan 2000. Vol. 53, Iss. 6; p. 63 (2 pages)
Abstract | Text+Graphics | Full Text - PDF (421 K)

2. **Blazing new trails**
Bob Strauss. **FamilyPC.** Northampton: Jan 2000. Vol. 7, Iss. 1; p. 127
Abstract | Link to full text

3. **My "top ten" Web sites**
Laurel Anne Clyde, Susan Hallam. **The Electronic Library.** Oxford: 2000. Vol. 18, Iss. 6; p. 444 (4 pages)
Abstract | Full text | Full Text - PDF (252 K)

4. **2001 Web guide: Trip planning**
Jenna Kern-Rugile. **Working Woman.** New York: 2000. p. 92
Abstract

5. **ON24 Investor Alert: ON24/TalkOnStocks: Expedia: Tickets Flying Out**
Business Editors & Analysts. **Business Wire.** New York: Dec 31, 1999. p. 1
Citation | Full text

6. **1999 and Beyond: Microsoft travails may be fleeting**
Cynthia Flash. **The News Tribune.** Tacoma, Wash.: Dec 31, 1999. p. D.1
Abstract | Full text

7. **Firm caters to short-notice travelers LastMinuteTravel.com aims to reach people who need to mak arrangements quickly, unlike other Web sites that tout bargain fares.; [MORNING Edition]**
E.N. SMITH. **Orange County Register.** Santa Ana, Calif.: Dec 27, 1999. p. C.18
Abstract

8. **TRAVEL INSIDER; New Web Site Beats Rivals at Finding Low Air Fares; Internet * A recently debut is a winner at locating good prices, wide choice in domestic flights.; [Home Edition]**
CRAIG STOLTZ. **Los Angeles Times.** Los Angeles, Calif.: Dec 26, 1999. p. 2

Abstract | Full text

9. **Tips for the trip to white villages of Andalusia; [FINAL Edition]**
Rob Pierce. **Tampa Tribune.** Tampa, Fla.: Dec 26, 1999. p. 4
Abstract | Full text

10. **The Internet is for the savvy investor; [National Edition 1]**
Don Tapscott. **National Post.** Don Mills, Ont.: Dec 24, 1999. p. D.7
Abstract | Full text

11. **The Internet is for the savvy investor; [National Edition]**
Don Tapscott. **National Post.** Don Mills, Ont.: Dec 24, 1999. p. D.07
Abstract | Full text

12. **MARKET GROWING FOR SPONTANEOUS TRAVEL ATLANTA-BASED WEB SITE IS SET UP FOR TI SEEKING FARE DISCOUNTS AT THE LAST MINUTE; [ALL Edition]**
The Augusta Chronicle. Augusta, Ga.: Dec 24, 1999. p. B.05
Abstract | Full text

13. **Now travelers can leave any time, online; [Run of Paper Edition]**
The Patriot Ledger. Quincy, Mass.: Dec 24, 1999. p. 07
Abstract | Full text

14. **Surfing through the holidays with top travel sites; [1 Edition]**
Toronto Star. Toronto, Ont.: Dec 24, 1999. p. 1
Abstract | Full text

15. **Surfing through the holidays; [1 Edition]**
Toronto Star. Toronto, Ont.: Dec 24, 1999. p. 1
Abstract | Full text

16. **Christmas air fares falling, // Last-minute travelers who are willing to be flexible can find good deal**
From Staff and Wire reports. **Austin American Statesman.** Austin, Tex.: Dec 23, 1999. p. D.1
Abstract | Full text

17. **Gomez Advisors Expands its Internet Travel Offering**
PR Newswire. New York: Dec 23, 1999. p. 1
Abstract | Full text

18. **AOL Says It Will Buy MapQuest Travel Site; 'Anywhere' Strategy Behind Stock Deal; [FINAL Editio**
Shannon Henry. **The Washington Post.** Washington, D.C.: Dec 23, 1999. p. E.01
Abstract | Full text

19. **AROUND ANCHORAGE; [Final Edition 11]**
Anchorage Daily News. Anchorage, Alaska: Dec 21, 1999. p. D.2
Abstract | Full text

20. **Expedia Seeks To Dismiss Suit**
New York Times (Late Edition (East Coast)). New York, N.Y.: Dec 21, 1999. p. C.22
Abstract | Full text

21. **NATION/WORLD BRIEFLY; [MORNING Edition]**

Orange County Register. Santa Ana, Calif.: Dec 21, 1999. p. C.11

Abstract

22. **MICROSOFT ASKS FEDERAL COURT TO THROW OUT PRICELINE.COM SUIT; [FINAL Edition]**
Seattle Times. Seattle, Wash.: Dec 21, 1999. p. 1

Abstract | Full text

23. **India: Patenting business methods - an oxymoron?**
Businessline. Chennai: Dec 20, 1999. p. 1

Abstract | Full text

24. **Hotel Industry Leaders Establish Strategic Relationships with and Invest in WorldRes.com**
Business Editors/High-Tech & Travel Writers. **Business Wire.** New York: Dec 20, 1999. p. 1

Abstract | Full text

25. **Expedia and Microsoft Move to Dismiss Priceline Case**
PR Newswire. New York: Dec 20, 1999. p. 1

Abstract | Full text

26. **PRICELINE.COM ALIGNS WITH TWO OTHER WEB TRAVEL SITES; [All Edition]**
Madison Capital Times. Madison, Wis.: Dec 17, 1999. p. 1.D

Abstract | Full text

27. **MICROSOFT, BEST BUY TEAM UP BIG CHAIN TO MARKET SERVICE, PRODUCTS; [FINAL Edition]**
P-I STAFF and NEWS SERVICES. **Seattle Post - Intelligencer.** Seattle, Wash.: Dec 17, 1999. p. B.1

Abstract | Full text

28. **ONLINE CHRISTMAS SHOPPING SPIKES, BUT SHIPPING BUBBLE BURSTS; [FINAL Edition]**
ANNE POLLAK BLOOMBERG NEWS. **Seattle Post - Intelligencer.** Seattle, Wash.: Dec 17, 1999. p. B.1

Abstract | Full text

29. **News in brief: Expedia gets specific**
Travel Trade Gazette Asia. Singapore: Dec 17, 1999. p. 1

Citation | Full text

30. **SABRE SPLIT MAY HELP AMR, TOO; [Final Chaser Edition]**
Sherri Chunn, Associated Press. **Arizona Republic.** Phoenix, Ariz.: Dec 15, 1999. p. E.8

Citation

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? Help Log On Msg
           *** ANNOUNCEMENTS ***
                    ***
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***BIOSIS Previews 1969-2007 (File 525)
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***Trademarkscan - South Korea (File 655)
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***File 5, BIOSIS Previews - archival data added
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NEWS
Chemical Structure Searching now available in Prous Science Drug
Data Report (F452), Prous Science Drugs of the Future (F453),
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[File 15] **ABI/Inform(R)** 1971-2007/Sep 28
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[File 348] **EUROPEAN PATENTS** 1978-2007/ 200738

**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT** 1979-2007/UB=20070927UT=20070920

**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 347] **JAPIO** Dec 1976-2007/Jun(Updated 070926)


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?  s (generat? or develop? or select? or rank? or sort? or determin?)(W)(travel or flight
or hotel or fare or faring)(W)(option? or plan or plans or planning or itinerar? or
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      3594797   RANK?
      2871981   SORT?
      8528454   DETERMIN?
      3838736   TRAVEL
      1698096   FLIGHT
      2626711   HOTEL
       489786   FARE
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        36524   FARING
      7357751   OPTION?
      9638343   PLAN
     12193761   PLANS
      7342737   PLANNING
       120681   ITINERAR?
      2288434   RESERVE
       426441   RESERVATION
       512255   RESERVATIONS
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          371   (((((GENERAT? OR DEVELOP?) OR SELECT?) OR RANK?) OR SORT?) OR
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     14669800   WEB
       811572   PORTAL
      2745807   INTERFACE
        89387   E-COMMERCE
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(ECOMMERCE OR INTERNET OR WEB OR PORTAL OR INTERFACE OR E-COMMERCE)

?  rd s1
>>>W:  Duplicate detection is not supported for File 348.
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Duplicate detection is not supported for File 347.
Records from unsupported files will be retained in the RD set.
S2        131   RD S1  (UNIQUE ITEMS)

?  s s2 and (display? or view? or generat? or creat? or priorit? or limit or limits or
best)(W)(subset? ? or subgroup? or sub-group? or option? or selection? or plans or flights
or hotels or itinerar?)
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          131   S2
      4557446   DISPLAY?
     10918914   VIEW?
     13163804   GENERAT?
     15686151   CREAT?
      2867076   PRIORIT?
      2659323   LIMIT
      1451265   LIMITS
     12287900   BEST
       246271   SUBSET? ?
        81092   SUBGROUP?
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          24   SUB-GROUP?
     7357751   OPTION?
     3373473   SELECTION?
    12193761   PLANS
      907398   FLIGHTS
     1533398   HOTELS
      120681   ITINERAR?
      121439   ((((((DISPLAY? OR VIEW?) OR GENERAT?) OR CREAT?) OR PRIORIT?) OR LIMIT)
OR LIMITS) OR BEST)...
S3         17   S S2 AND (DISPLAY? OR VIEW? OR GENERAT? OR CREAT? OR PRIORIT? OR LIMIT OR
LIMITS OR BEST)(W)(SUBSET? ? OR SUBGROUP? OR SUB-GROUP? OR OPTION? OR SELECTION? OR PLANS
OR FLIGHTS OR HOTELS OR ITINERAR?)

?  sort /s3/all/py
>>>W:  'S3' is not a correct range item.

?  sort s3/all/py
>>>W:  Sort tag 'PY' is undefined for file(s): 810, 813, 256, 348, 349
Records from file(s) listed above will appear at the end of the sorted set.
S4         17   SORT S3/ALL/PY

?  t s4/3,k/all
```

4/3,K/1 (Item 1 from file: 16) **Links**

05912563 **Supplier Number:** 53137613 **(USE FORMAT 7 FOR FULLTEXT)**

The Corporate Booking Battlefield.(growth and sophistication in online corporate booking tools)

Quinlan, Michael

Travel Agent , p NA
Oct 12 , 1998
Language: English **Record Type:** Fulltext
Document Type: Magazine/Journal ; Trade
Word Count: 1723

...end' booking and expense-management system combining the SABRE BTS booking engine with IBM's **Internet** T&E expense-reporting tool.

In addition, SABRE has integrated several informational features into its...

...the ability to handle negotiated rates, create personal as well as companywide trip templates, and **sort travel options** through a series of criteria.

Another advantage SABRE enjoys over some of its competitors is...

...not offer the effective options available with an independent reporting company.

ITN: Founded in 1995, **Internet** Travel Network (ITN) is a relative newcomer to the field of corporate online booking. Still... E-Travel's own database of fares. Travelers can create templates for frequently used trips, **sort travel options** through various criteria and automatically E-mail itineraries to co-workers,

supervisors or even their...

...August teamed up with the Time Inc. Research Center to create a business travel reference **Web** site for users. The site also offers local news, restaurant reviews, travel advisories, visa and...

...system is somewhat light on built-in additional features, PowerTrip nevertheless offers a graphically pleasing **interface** along with an easy-to-use booking engine that functions with SABRE, Apollo, Worldspan and ...

...driving directions and mapping utilities are nonexistent. However, the product features a variety of travel **display options** for the user and policy administration functions for the corporate administrator.
But perhaps the strongest...

4/3K/2 (Item 2 from file: 348) **Links**
EUROPEAN PATENTS

01791249
Flight guidance system and symbology and control system providing perspective flight guidance
Fluglenkungssystem, Symbologie und Kontrolsystem zur Bereitstellung von perspektiven Fluglenkung
Systeme de commande de vol, symbologie et systeme fournissant un guidage de vol en perspective

Patent Assignee:

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  100 North Riverside Plaza; Chicago, IL 60606-1596; (US)
  (Applicant designated States: all)

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- **Harris, Kenneth S.**
  2524 Millcreeck Road; Wilmington, DE 19808; (US)

Legal Representative:

- **Land, Addick Adrianus Gosling et al (59334)**
  Arnold & Siedsma Sweelinckplein 1; 2517 GK Den Haag; (NL)

	Country	Number	Kind	Date	
Patent	EP	1462767	A1	20040929	(Basic)
	EP	1462767	A1	20040929	
Application	EP	2004075600		20040227	
Priorities	US	376914		20030227	
	US	376869		20030227	

Designated States:
DE; FR; GB; IT; NL;

Extended Designated States:
AL; LT; LV; MK;

International Patent Class (V7): G01C-023/00**Abstract Word Count:** 145
NOTE: 1
NOTE: Figure number on first page: 1

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200440	1318
SPEC A	(English)	200440	16286
Total Word Count (Document A) 17604			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 17604			

Specification: ...desired flight path based upon stored navigation information; a display component configured to receive the **generated flight plan** portion and to generate a three-dimensional graphical representation of the **generated flight plan** portion; and a rendering component configured to receive the three-dimensional graphical representation and to...magnification of the information within that region on the display 208.

Further, an FPV-centered **display option** may be provided to allow for centering of the display about the FPV, or alternatively... ...embodiments of the present invention improve performance and reduce pilot workload using various guidance and **display options** for terminal flight operations and/or terrain flight/terrain avoidance operations.

More particularly, and as...smooth profile.

In general, and as shown in Figure 13, the tunnel generator component 450 **generates flight plan** guidance (e.g., flight plan profiles) based upon input conditions and navigation information (e.g ... ...director standard approach and missed approach information 464. The processor component 456 includes a tunnel **interface** 466 for generating a tunnel flight plan computation for a flight director component 468, which...magnification of the information within that region on the display 208.

Further, an FPV-centered **display option** may be provided to allow for centering of the display about the FPV, or alternatively... ...embodiments of the present invention improve performance and reduce pilot workload using various guidance and **display options** for terminal flight operations.

The description of the invention is merely exemplary in nature and...

Claims: ...desired flight path based upon stored navigation information;

a display component configured to receive the **generated flight plan** portion and to generate a three-dimensional graphical representation of the **generated flight plan** portion; and

a rendering component configured to receive the three-dimensional graphical representation and to...

4/3K/3 (Item 3 from file: 349) **Links**
PCT FULLTEXT

01494539
SYSTEM AND METHOD FOR COORDINATING TRAVEL ITINERARIES
SYSTEME ET PROCEDE DE COORDINATION D'ITINERAIRES DE VOYAGE

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  (For all designated states except: US)
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  (For all designated states except: US)
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- **ALBERT Robert**; 44 W. 10th Street, #7e, New York, NY 10011
  US; US (Residence); US (Nationality)
- **GAMBHIR Sahil**; 775 Scarsdale Road, Unit 35, Tuckahoe, NY 10707
  US; US (Residence); US (Nationality)
- **KYLE Andy**; 24 Cushing Street #1, Medford, MA 02155
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- **WEBBY Richard**; 427 Newburgh Court, West New York, NJ 07093
  US; US (Residence); AU (Nationality)
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  US; US (Residence); US (Nationality)

- **POTTER Gary J**; 9609 Grandview Drive, Denton, TX 76207
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- **MORRIS Kyle N**
  2817 Cheshire Way, Grand Prairie, TX 75052; US; US (Residence); US (Nationality);
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BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HN; HR; HU; ID; IL;
IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ;
LA; LC; LK; LR; LS; LT; LU; LV; LY; MA;
MD; MG; MK; MN; MW; MX; MY; MZ; NA; NG;
NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS;
RU; SC; SD; SE; SG; SK; SL; SM; SV; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
VC; VN; ZA; ZM; ZW;

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FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
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Detailed Description:

...connected via at least one computer network 26. For example, the server may be a **web** server and an application server that may be located on the same physical device or the **web** server may be separate from and in communication with the application server via the **Internet**, intranet or any other computer network.

The system 20 also generally includes at least one... ...element(s) 24 of one embodiment may be embodied by the server, such as the **web** server and/or the application server. The client element(s) 22 and the processing element(s) 24 and, in one embodiment, the **web** and application server(s) may be distributed as parts of different workstations, computers, servers or... ...that may be in different physical locations and in communication with each other via the **Internet**, intranet or other computer network(s) 26. To be consistent, the discussion hereinafter refers to ... ...element(s) 24 and in communication with one or all of the elements via the **Internet**, intranet or other computer network(s) 30. Regardless of the configuration, the database 28 is accessed by other elements of the travel itinerary coordination system 20 via an **interface**, such as, but not limited to, a Common Object Request Broker Architecture (CORBA), active data object (ADO) **interface**, open database connectivity (ODBC) **interface**, or **web** services.

The client element(s) 22 represent the device or devices that users of the... ...with the server(s). For example, the client element(s) 22 may support a browser **interface** to permit communications with the server(s). The browser **interface** is generally an **Internet** browser, but other browser interfaces capable of appropriately displaying the travel data, soliciting user input... ...client element(s) 22 are in communication with the processing element(s) 24 via the **Internet**, intranet or other computer network 26.

As described above, the processing element(s) 24 of one advantageous embodiment include a **web** and application server, which may utilize any modem operating system, such as, but not limited to, Microsoft Windows, UNIX, or Linux, and any modern **web** development platform, such as, but not limited to, JAVA,-1 1-.

commercially available from Sun Microsystems, Inc. One or more application program(s) may reside on the **web** and application server(s). For example, in the embodiment of the network architecture diagram of... ...client element(s) 22 in any appropriate form, such as, but not limited to, a **web** page form having predefined fields. The form may be viewed by the user as "screens" via client element(s) 22 and the browser **interface** including, for example, a display. As known to those skilled in the art, the screens... ...as the travel organizer, and, optionally, one or more of the travelers, via the browser **interface**. Furthermore, if the particular user is to perform a task regarding the presented travel itineraries...Once the method of payment has been selected, the travel organizer may then select the "**View Itinerary**" box 106, which provides a display of a detailed list of all of the itineraries... ...and sending an email detailing each traveler's itinerary or containing a link to a **web** page that displays the itinerary information. In addition, the system 20 may create a group... ...that contains the details of the respective traveler's itinerary or a link to a **web** page that contains the details. Email 120 of Figure 5 illustrates such a communication. This email contains a link to a **web** page that contains the details of the respective traveler's itinerary and the email communicates... ...communicate with the rest of the travelers. When the traveler selects the link to the **web** page in the email, **web** page 122 may be displayed to the traveler. As discussed above with respect to the.....Any car rental or hotel rental information is also presented to the traveler via the **web** page 122 in portion 130. In some embodiments of the method and system 20, the... ...also be permitted to modify the car rental and/or hotel rental information via the **web** page 122.

In the example of Figure 5, the individual payment option was selected, such... ...traveler's share of those costs.

Furthermore, because the individual payment option was selected, the **web** page 122 also contains portion 124 prompting the traveler to enter the payment information.

Alternatively...further be presented with the ability to view the overall itinerary through, for example, a "**View Itinerary** " box which provides a display of a detailed list of all of the itineraries for... ...to each traveler detailing the respective traveler's itinerary or containing a link to a **web** page that displays that itinerary information. In addition, the system 20 may create a group...

Claims:

...the identified at least one hotel itinerary for review; and receiving an indication of a **selected hotel itinerary** from the identified at least one hotel itinerary.

14. A method according to Claim 11... ...the at least one client element is further capable of receiving an indication of a **selected hotel itinerary** from the identified at least one hotel itinerary.

33. A system according to Claim 18...

4/3K/4 (Item 4 from file: 349) **Links**
PCT FULLTEXT

01344859
SYSTEM AND METHOD FOR TRAVEL PLANNING
SYSTEME ET METHODE POUR PLANIFIER UN VOYAGE

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GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
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LR; LS; LT; LU; LV; MA; MD; MG; MK; MN;
MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG;
PH; PL; PT; RO; RU; SC; SD; SE; SG; SK;
SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA;
UG; US; UZ; VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LT; LU;
LV; MC; NL; PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
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Detailed Description:

...includes one of a scheduling computation system for computing said scheduling and a scheduling access **interface** for receiving user scheduling directives.

It is now disclosed for the first time a method ... ...plurality of travel legs of a multi-leg journey, the system comprising.

a) an location **interface** for specifying at least three locations associated with a multileg journey having at least two travel legs between said specified at least three
locations;
b) a single leg display **interface** for displaying information about a single said travel
leg; and
c) a selection mechanism for... ...said travel leg from said at least two travel
legs,
wherein said single leg display **interface** is operative to display information about said selected travel leg.

According to some embodiments, said single leg display **interface** is operative to display information about only said selected travel leg.

It is now disclosed... ...said recreational and/or tourism activity associated with a respective
physical location;
b) an access **interface** for receiving at least one time interval;
C) a scheduling **interface** for scheduling of a selected sub-plurality of said recreational and/or tourism activities within... ...d) a toggling mechanism for toggling between said scenarios.

According to some embodiments, said scheduling **interface** includes a scheduling window operative to display a plurality of time blocks.

It is now... ...the hand held device.

According to some embodiments, the system further comprises a graphical user **interface** displaying a time line showing places of interest and farther illustrates money spent as a fraction of the travel budget.

According to some embodiments, the graphical user **interface** is transmitted to the traveler's hand held device so that the traveler monitors money... ...is now disclosed for the first time an electronic travel itinerary, comprising.

a graphical user **interface** that include a time line showing places of interest for each day of the itinerary... ...to some embodiments of the present invention
FIG. 20 provides an image of an exemplary **interface** for inputting travel destinations.

FIG. 30 provides an image of an exemplary **interface** for selecting candidate recreational and/or tourism activities.

FIG. 40 provides an image of an exemplary **interface** for scheduling recreational and/or tourism activities.

FIG. 50 provides an image of an exemplary contact information **interface**.

FIG. 60 provides an image of an exemplary monthly view **interface**.

FIG. 70 provides an image of an exemplary daily view **interface**.

FIG. 80 provides an image of an exemplary map view **interface**.

FIG. 90-100 provide images of an exemplary multi-leg transportation information **interface**.

FIG. 1 10 provides an image of an exemplary bundling combination presentation **interface**.

FIGS. 120-200 provide images of an exemplary itinerary preparation process.

FIG. 2 1 0... ...contrast to systems where a user schedules recreational and/or tourism activities through an access **interface**. Optionally, computing a schedule of a plurality of recreational and/or tourism activities includes selecting... ...embodiments where the travel plan resides on a portable electronic device, the user of the **generated travel plan** can take the electronic device with him throughout the trip and receive appropriate travel information... ...20 may be implemented using any appropriate combination of hardware and/or software.

The access **interface** 110 receives travel time information such as at least one time interval as well as destination **interface** from a user. In some embodiments, the at least one time interval is one or... ...and a party associated with a corporate travel department.

It is noted that the access **interface** 110 as well as any other component described herein may be provided within a single...an optional accounting subsystem 130 (either internal and/or operative to communicate through an appropriate **interface** with an external accounting system 126), an optional reservation subsystem 128 (either internal and/or operative to communicate through an appropriate **interface** with an external reservation system 122), an optional budget engine 132 and an optional CRM... ...namely,
"A,B,C,D, and E."
Although the previous paragraph noted that the access **interface** 110 may optionally be distributed among a plurality of networked devices, it is noted that... ...means a limitation of the present invention.

Referring now to FIG. 30, the exemplary user **interface** includes a window for specifying and/or selecting activity categories 244, a candidate activities window ... ...activities selected by the user as possible activities to be scheduled. This activity selection user **interface** is activated with the "activities" tab 247. The activity category 244 window contains a menu ... ...Paris, which was selected as a destination in FIG. 20. It is noted that the **interface** of FIG. 30 provides a mechanism 252 for toggling between selected destination, and the activities... ...user the labor intensive process of seeking out specific attractions one by one on the **internet** or in printed guides.

Alternatively or additionally, the "System's recommendation" are provided in accordance ... ...well known in the hard, for example, LaunclicastO from Yahoos.

Referring again to FIG. 30, **interface** is operative to allow a user to select certain candidate activities from the candidate activities... ...240 with the user-selected candidate activities. There is no explicit limitation on how the **interface** allows the user to select activities to populate the activity stack. For example, the "select... ...the first time a system for trip planning. The system includes an activity topic selection **interface** for selecting an recreational or tourism activity category from a plurality of recreational or tourism activity categories, an activity display **interface** from displaying description data describing at least one recreational activity associated with the selected recreational... ...the window for specifying and/or selecting activity categories 244 is an activity topic selection **interface** for selecting a recreational activity category from a plurality of recreational activity category. As illustrated in FIG. 30, the candidate activities window 256 is an activity display **interface** from displaying description data describing at least one recreational activity associated with the selected recreational... ...stack 240.

The embodiment of FIG. 30 includes the optional feature of a location selection **interface** for selecting a location from a plurality of locations. As illustrated in FIG. 30, the location selection **interface** is implemented with the toggling mechanism 252, and the activity display **interface** (e.g.

the candidate activities window 256) is operative to display description data associated with... ...in the candidate activity display window.

FIG. 40 provides an image of an exemplary user **interface** for scheduling one or more activities within an "activity stack" 240 within a one or... ...an appropriate scheduling algorithm implemented by the scheduling engine 140.

It is noted that the **interface** of FIG. 40 is operative to assign or schedule various activities, and the **interface** of FIG. 40 is activated by selecting the "assignment" tab.

In some embodiments, the computing... ...140 to compute a schedule of other activities from the activity stack. The scheduling user **interface** as shown in FIG. 40 provides a plurality of scenario toggles 512 allowing the user... ...daily view, a weekly view, and a monthly view.

As shown in FIG. 40, the **interface** includes an aggregate time window 514 for displaying an estimated total time of scheduled activity... ...the constraints enter the system. In some embodiments, the constraints are received through a user **interface**. Alternatively or additionally, the constraints are obtained from an external database 118. Alternatively or additionally... ...the scheduling system.

In one example, the travel planning engine is operative to access relevant **web** sites or databases such as a travel commodities cost database. In one example, the travel...as well as directives received during user interventions.

Thus, according to some embodiments, the access **interface** is operative to receive additional travel planning directives and the schedule is computed in accordance... ...a said recreational activity.

Referring again to FIG. 40, it is noted that the user **interface** of FIG. 40 also includes components for reserving activity support resources such as the "hotel... ...accordance with need for or lack of need for the hotel. In some embodiments, the **interface** provides a "Rental Car" option per day, wherein selecting or deselecting this option is operative... ...activities support resources. Although the map window 520 presents geographical inform on a map,

any **interface** for displaying geographical location information is appropriate.

It is now disclosed for the first time... ...includes graphically displaying geographical location information about a plurality of recreational activities through a user **interface**, each recreational activity associated with a respective displayed geographical location, receiving through the user **interface** location identifications of a plurality of said displayed geographical locations (e.g. by pointing on... ...period at least some specified recreational activities.

Although the map window 520 is an exemplary **interface** for graphically displaying geographical location information, this is not a limitation of the present invention... ...this is an example, and should not be construed as limiting.

In some embodiments, user **interface** is operative to display feasibility information about at least one said recreational activity. Examples of ... ...travel between two points in a given time.

It is noted that the scheduling user **interface** as shown in FIG. 40 provides a plurality of scenario toggles 512 allowing the user... ...of recreational activities, each respective recreational activity associated with a respective physical location, an access

interface for receiving at least one time interval (e.g. to specify the plurality of time blocks in 519, from 21/11/04 until 23/11/04), a scheduling **interface** for scheduling of a selected sub-plurality of recreational activities within the at least one... ...between said scenarios.

Scheduling of "Custom Activities" Such as Megti=
It is noted that the **interface** of FIG. 40 is not limited to recreational and/or tourism activities.

Optionally, the **interface** of FIG. 40 is also operative to schedule (manual and/or computed schedule) of custom... ...tourism and/or recreational activities in, accordance with specified custom activities.

FIG. 50 provides an **interface** for managing custom activities. The **interface** includes a contact card window 612, a meeting summary window 610, and list of contacts... ...of the same activities. Thus, according to some embodiments of the present invention, the access **interface** includes a view presenter for presenting the scheduled tourism and/or recreational and/or custom... ...see FIG. 40), and the Monthly View 656. In each of the aforementioned views, the **interface** is optionally operative for scheduling activities and/or viewing scheduled activities.

In some embodiments, the... ...obtaining pricing and/or route information for travel between destinations.

FIG. 90 provides a user **interface** displaying information related to a multi-leg journey having at least two travel legs. As... ...train transportation. It is noted that there are also flights between Paris and Lyon.

The **interface** as shown in FIGS. 90-100 includes a "flights lowest price" window 714 and an... ...and the lowest price bus is $130.

As shown in FIGS. 90-100, the location **interface** for specifying the locations associated with the multi-leg j ourney includes the leg windows... ...specifying" the at least three locations includes receiving the at least three locations through the **interface**.

Alternatively, the at least three "specified" locations are specifying in another **interface** context, for example, the

destination specification **interface** of FIG. 20.

As shown in FIGS. 90-100, the travel display window functions as a single leg display **interface** for displaying information about a single travel leg. As shown in FIGS. 90-100, the... ...functions as the selection mechanism for selecting a travel leg.

It is noted that the **interface** of FIG. 100 provides for the first time the opportunity to obtain information about traveling between two locations using a plurality of modes of transportation through a single **interface** or location. There is no need for a user to access this information from a... ...locations, and then to compare prices by himself.

FIG. 1 1 0 provides an exemplary **interface** for obtaining and/or presenting travel deals. The travel deals presented in FIG. II 0... ...travel" services are car, hotel and flight.

It is noted that in exemplary embodiments, the **interface** as depicted in FIG. I 10 is useful for members of loyalty programs such as... ...embodiments, the system also includes a geographical
information sub-system that can provide a graphical **interface** for display of user selected locations, POIs and attractions, and can calculate distance between point... ...some embodiments, the system and method provide an ATP with
the possibility of synchronizing the **generated itinerary** with a PDA as an electronic itinerary, with or without navigational or location based service... ...he system uses the budget control sub-system to define the budget constraints for the **selected travel plan**. The budget monitors or controls or both expenditures by the traveler of funds during the...external distribution systems, such as Computerized Reservation Systems , Global Distribution Systems and the World Wide **Web** with requests for service details that meet the travel requirements as given in the access **interface** 110 and conform to the preferences set forth in the Customer Relations Management Subsystem 116... ...and the traveler. The sub-system interfaces with external accounting systems through its own standard **interface**. The System's Engine 201 generates a trip itinerary and outputs to a printer and...

Claims:

...activities, each respective said recreational activity associated with a respective physical
location;b) an access **interface** for receiving at least one time interval; andC) a travel planning engine for generating... ...by said travel planning engine in accordance with a duration parameter received through said access **interface**. 18) The system for generating a travel plan of claim I wherein said activity parameter... ...device. 29) The system for generating a travel plan of claim I wherein said access **interface** is further operative for manual scheduling of at least one selected said recreational activity within... ...interval. 30) The system for generating a travel plan of claim 29 wherein said access **interface** provides access to a plurality of scheduling scenarios. 31) The system for generating a travel... ...system for generating a travel plan of claim 32 wherein said reservation module is an **interface** for sending directives to a travel services purchasing system external to the system for generating... ...type preferences, and activity duration preferences. 67) The system of claim I wherein said access **interface** is operative to receive additional travel planning directives and said schedule is computed in accordance... ...a relationship between constraints and said received additional planning directives is transmitted through said access **interface**. 69) The system of claim 68 wherein said constraints are selected from the group consisting... ...parameters includes a predetermined start time. 71) The system of claim I wherein said access **interface** is operative to receive activity user preferences. 72) The system of claim 71 wherein at... ...79) The system of claim 75 wherein absolute requirement constraint is received through said access **interface**. 80) The system of claim 75 wherein said budget constraint relates to at least one... ...said constraint is a probabilistic constraint. 87) The system

of claim I wherein said access **interface** is operative to receive information for determining at least in part a said constraint. 88... ...device to a second said device. 101) The system of claim 97 wherein said access **interface** resides on a plurality of networked devices. 102) The system of claim IO 1 wherein... ...The system of claim 112 wherein said updated user preference is received through said access **interface**. 115) The system of claim II 3 wherein said updated user preference is received from... ...a said scheduling scenario. I 1 8) The system of claim I wherein said access **interface** is operative to effect a manual scheduling of at least one said recreational activity. 119... ...manually scheduled recreational activity. 120) The system of claim 1 1 8 wherein said access **interface** is further operative to present scheduling suggestions derived from a said computed schedule. 121) The ...activities, each respective said recreational activity associated with a respective physicallocation;b) an access **interface** for receiving at least one time interval; andc) a travel planning engine for generating... ...a) graphically displaying geographical location information about aplurality of recreational activities through a user **interface**, each saidrecreational activity associated with a respective displayed geographicallocation;b) receiving through said user **interface** location identifications of aplurality of said displayed geographical locations, each said identificationoperative to... ...geographical location on said displayed map. 142) The method of claim 140 wherein said user **interface** is operative to display feasibility information about at least one said recreational activity. 143) The... ...a) graphically displaying geographical location information about aplurality of recreational activities through a user **interface**, each saidrecreational activity associated with a respective displayed geographicallocation;b) receiving through said user **interface** location identifications of aplurality of said displayed geographical locations, each said identificationoperative to... ...said budget constraints.149) A system for trip planning comprising:b) an activity topic selection **interface** for selecting an recreational activitycategory from a plurality of recreational activity category;b) an activity display **interface** from displaying description data describing at least one recreational activity associated with said selected recreational... ...said selected activities.150) The system of claim 149 further comprising:e) a location selection **interface** for selecting a location from a plurality oflocations,wherein said activity display **interface** is operative to display description data associated with said selected recreational activity category in said... ...information, and rating information. 152) The system of claim 149 wherein said activity category selection **interface** is operative for selection of subcategories of said categories, and said activity displayed **interface** is operative to display recreational activity associated withsaid selected subcategory. 153) The system of claim 152 wherein said activity category selection **interface** includes a tree **interface** for selecting said sub-categories.

154) The system of claim 149 further comprising:e) a ... ...and customer needs andcustomer demographic data for at least one customer;b) an access **interface** for receiving at least one time period and atleast one location;C) a scheduler... ...includes one of a schedulingcomputation system for computing said scheduling and a scheduling access**interface** for receiving user scheduling directives. 159) A method of presenting information about pricing of at... ...plurality of travel legs of a multi-legjourney, the system comprising:a) an location **interface** for specifying at least three locations associatedwith a multi-leg journey having at least two travel legs between saidspecified at least three locations;b) a single leg display

interface for displaying information about a singlesaid travel leg; andc) a selection mechanism for... ...said travel leg from said atleast two travel legs,wherein said single leg display **interface** is operative to displayinformation about said selected travel leg.171) Thesystemofclaiml7Owhereinsinglelegdisplayinterfaceisoperativetodispla y information about... ...activities, each respective said recreational activity associated with a respective physicallocation;b) an access **interface** for receiving at least one time interval;C) a scheduling **interface** for scheduling of a selected sub-plurality of saidrecreational activities within said at least... ...scenarios. 174) The system for generating a travel plan of claim 173 wherein said scheduling **interface** includes a scheduling window operative to display a plurality of time blocks. 175) A system... ...the hand held device. 190) The system of claim 175, further comprising a graphical user **interface** displaying a time line showing places of interest and farther illustrates money spent as a fraction of the travel budget. 191) The system of claim 190, wherein the graphical user

interface is transmitted to the traveler's hand held device so that the traveler monitors money... ...the traveler; and managing customer relations.200) A electronic travel itinerary, comprising:a graphical user **interface** that include a time line showing places of interest for each day of the itinerary...

4/3K/5 (Item 5 from file: 348) **Links**
EUROPEAN PATENTS

01338154
Multiple currency travel reservation information management system and method
System und Verfahren zur Verwaltung von Informationen uber Reisereservierungen in mehreren Wahrungen
Systeme et methode de gestion d'informations sur des reservations de voyages en plusieurs monnaies

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Patent	EP	1143366	A2	20011010	(Basic)
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Application	EP	2001110070		19960828	
Priorities	US	521354		19950830	

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Related Parent Numbers: Patent (Application):EP 870260 (EP 96929749)

International Patent Class (V7): G06F-017/60**Abstract Word Count:** 135
NOTE: 5
NOTE: Figure number on first page: 5

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200141	1150
SPEC A	(English)	200141	7830
Total Word Count (Document A) 8980			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 8980			

Specification: ...commonly referred to in the travel industry as back office systems, have been developed to **interface** information from the CRS (typically sent from the CRS in the form of an accounting **interface** record ("AIR")) into a local database after a ticket issues, so that the information can...currency travel data to a corporation's main frame or internal computer, to, for example, **interface** with the corporate general ledger.
Summary of the Invention

A new method and system of ...segment and price associated with each segment, of booking reservations for a selected segments, of **generating travel reservation** information in response to a request by the first or second locally operated computer systems...selected segment for booking, booking a reservation at the price in the CRS for each **selected travel itinerary**, representing the price of the travel segment in the global currency, storing information regarding the...and land lines 30 to remotely maintained computer system 32. Computer system 32 includes communication **interface** equipment 34, computer 36, and a plurality of memory storage disks 38, 40, 42, 44... ...available pertaining to this invention is whether or not the agency requested that an accounting **interface** record ("AIR") be generated automatically every time a reservation is ticketed. An AIR is a... ...a round-trip, non-stop flight includes a two segment. The agent then selects the **best itinerary** and, thus, the best segments and requests a reservation, step 120. Upon receipt of the...the sources from the description of FIG. 3 above. The system is also designed to **interface** with vendors 222 and allow them to provide expense, refund, and commission information 224 to...above could be altered to accept data manually or via electronic systems such as the **Internet**. The system described above could also be easily modified to provide the ability to access other electronic services or systems, such as the **Internet**.

The methods and systems described above could be modified by one of ordinary skill in the art to **interface** to a corporations main frame or internal computer system to exchange information. For example, the...

Claims: ...prices associated with each travel segment, (b) booking reservations for a selected travel segment, (c) **generating travel reservation** information in response to a request from the locally operated computer system, and (d) detecting...

4/3K/6 (Item 6 from file: 349) **Links**
PCT FULLTEXT

01210251
SYSTEM AND METHOD FOR COORDINATING TRAVEL ITINERARIES
SYSTEME ET PROCEDE DE COORDINATION D'ITINERAIRES DE VOYAGE

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PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;
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Detailed Description:

...at least one computer network 26. For 1 5 example, the server may be a **web** server and an application server that may be located on the same physical device or the **web** server may be separate from and in communication with the application server via the **Internet**, intranet or any other computer network. The system 20 also generally includes at least one... ...element(s) 24 of one
embodiment may be embodied by the server, such as the **web** server and/or the application server. The client element(s) 22 and the processing element(s) 24 and, in one embodiment, the **web** and application server(s) may be distributed as parts of different workstations, computers, servers or... ...that may be in different physical locations and in communication with each other via the **Internet**, intranet or other computer network(s) 26. To be consistent, the discussion hereinafter refers to ... ...element(s) 24 and in communication with one or all of the elements via the **Internet**, intranet or other computer network(s) 30. Regardless of the configuration, the database 28 is accessed by other elements of the travel itinerary coordination system 20 via an **interface**, such as, but not limited to, a Common Object Request Broker Architecture (CORBA),
active data object (ADO) **interface** or open database connectivity (ODBC)

interface.

The client element(s) 22 represent the device or devices that users of the travel ... ...with the server(s). For example, the client element(s) 22 may support a browser **interface** to permit communications with the server(s). The browser **interface** is generally an **Internet** browser, but other browser interfaces capable of appropriately displaying the travel data, soliciting user input... ...client element(s) 22 are in communication with the processing element(s) 24 via the **Internet**, intranet or other computer network 26.

As described above, the processing element(s) 24 of one advantageous
embodiment include a **web** and application server, which may utilize any modem operating system, such as, but not limited to, Microsoft Windows, UNIX, or Linux, and any modem **web** development platform, such as, but not limited to, JAVA, commercially available from Sun Microsystems, Inc. One or more application program(s) may reside on the **web** and application server(s). For example, in the embodiment of the network architecture diagram of... ...client element(s) 22 in ally appropriate form, such as, but not limited to, a **web** page form having predefined fields. The form may be viewed by the user as "screens" via client element(s) 22 and the browser **interface** including, for example, a display. As known to those skilled in the art, the screens... ...as the travel organizer, and, optionally, one or more of the travelers, via the browser **interface**. Furthermore, if the particular user is to perform a task regarding the presented travel itineraries...Once the method of payment has been selected, the travel organizer may then select the "**View Itinerary**" box 106, which provides a display of a detailed list of all of the itineraries... ...and sending an email detailing each traveler's itinerary or containing a link to a **web** page that displays the itinerary information. In addition, the system 20 may create a group... ...that contains the details of the respective traveler's itinerary or a link to a **web** page that contains the details. Email 120 of Figure 5 illustrates such a communication. This email contains a link to a **web** page that contains the details of the respective traveler's itinerary and the email communicates... ...the 1 5 rest of the travelers. When the traveler selects the link to the **web** page in the email, **web** page 122 may be displayed to the traveler. As discussed above with respect to the... ...Any car rental or hotel rental information is also presented to the traveler via the **web** page 122 in portion 130.

In some embodiments of the method and system 20, the... ...be pen-nitted to modify the car rental and/or hotel rental information via the **web** page 122.

In the example of Figure 5, the individual payment option was selected,
such... ...traveler's share of those costs. Furthermore, because the individual payment option was selected, the **web** page 122 also contains portion 124 prompting the traveler to enter the payment information. Alternatively...

Claims:

...the identified at least one hotel itinerary for review; and
receiving an indication of a **selected hotel itinerary** from the at leastone hotel itinerary.
18 The method according to claim 1, further... ...said at least one
processing element is also capable of receiving an indication of a **selectedhotel itinerary** from the at least one hotel itinerary; andwherein said at least one display element...

4/3K/7 (Item 7 from file: 349) **Links**
PCT FULLTEXT

01000979
PFN/TRAC SYSTEM FAA UPGRADES FOR ACCOUNTABLE REMOTE AND ROBOTICS CONTROL
PERFECTIONNEMENTS FAA AU SYSTEME PFN/TRAC<SP>MD</SP> POUR LE CONTROLE RESPONSABLE A DISTANCE ET ROBOTIQUE POUR L'ELIMINATION DE L'UTILISATION NON AUTORISEE D'AERONEFS ET POUR L'AMELIORATION DE LA GESTION D'EQUIPEMENT ET DE LA SECURITE PUBLIQUE DANS LE DOMAINE DU TRANSPORT

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ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
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English Abstract:

...across a wide variety of communication protocols to complete a more mobile flexible matrix or **web**. This connected communication matrix of computers and humans provides an enhanced Human Machine Interfacing HMI...

French Abstract:

...matrice de communication de connexion d'ordinateurs et d'etres humains fournit un scenario d'**interface** homme-machine (IHM) localement et systematiquement en temps reel pour ameliorer la gestion d'equipement...

Detailed Description:

...patent filings) are constructed specifically not to be a monopoly, but instead an accountable workable **interface** to combine present day dispersed and disparate technologies and systems via a coordinated network of...functions as part of a great machine messaging matrix. This local accountable Primary Focal Node **interface** was invented for more freedom, public safety and better management of the earth's resources...slide highlighting the important characteristics and benefits of the PFN/TRAC invention; as a timeless **interface** technology that incorporates new technology into an architecture that provides accountable aggressive automated and remote... ...technologies.

Figure 3 is an application specific integrated circuit for an avionics PFN/TRAC System **interface**.

Figure 4 discusses the product development differences between first and second-generation PFN/TRAC systems...the nation faces from terrorism Figure 10 displays the first aircraft router/test PFN/TRAC **interface** platform "The TRACker".

Figurell ThelaTRACkerwilluseaqualityCOTSlaptopeomputerproduct.

Figure 12 Drawings of two products la TRACker and FACT...Figure 26 The different PFNS are commercially flexible for the various technologies and companies to **interface**, access and control any or all of the airport equipment e.g. ground service people...from GPS Satellites.

Figure 30 illustrates the use of pager technology, specifically 2 way paging **interface** in the invention.

Figure 31 shows cellular use in the invention.

Figure 32 dhows the...personnel through the airport and gate to gate in the skies.

This advanced human machine **interface** provides for accountable remote and automated control of all machinery interfaced and controls traffic flow...terms and definitions used.

The PFN is a Protected Primary Focal Node (a protected accountable **interface** connected with a controller and communication router). This combination is a PFN/TRAC unit ...the invention uses a PC architecture and application stack for the translation of messaging to **interface** flight systems and controls and protects this process in structures terined PFNs. PFNs house the controlled flight. The local PFN/TRAC routers also **interface** wireless communications and transfer that data into **Internet** Protocols specific to the applications they are intended for and wireless protocols needed to transmit...remote and robotics control to transportation vehicles and other operational and security equipment via the **interface** with the vehicles or equipment's E/E systems to obtain a stable power source...IA ASIC detailed in figure 3. The Carryon TRACker series is to be a reporter **interface** only system with isolated devices from actual flight control systems. TRACker is set up to...functions across a wide variety of communication protocols to complete a mobile flexible matrix or **web**. This connected communication matrix ...aspect of a transaction are reviewable. The invention is a composite of a number unique **interface** innovations to include other commercial products to develop a complete accounting and management system for... of the figure is the ground support network linked by wireless telephony, satellites, landlines and **Internet** protocols.

103 is the DOD NORAD or North American (NA) military air CINC command center ...mind this data link can be used through a 1A PFN/TRAC units or TRACker **interface** to coordinate security activities and better coordinate movement between commercial air craft and close air...remote control but this coordinated use of commercial ATM systems is an ideal modality to **interface** the two. Away to introduce this for the PFN/TRAC IA PFN aircraft units is...Initially implementation would occur by first sharing this data link via the technologies carryon TRACker **interface** platform for air ...set the stage for a standard with the use of the PFN/TRAC System and **interface** units for these aggressive remote control scenarios. All the dispersed and disparate communications and mass...to comprehend the use of existing technologies and parts and appreciate how they are innovatively **interface** and uniquely combined for functionality with present and legacy technologies to develop real product and...slide highlighting the important characteristics and benefits of the PFN/TRAC invention; as a timeless **interface** technology that incorporates new technology into an architecture that provides accountable aggressive automated and remote...the same capacity and be used as the Air Marshal TRACker unit's processor to **interface** wireless and video interfacing.

The la TRACker does not perform remote control via direct connection...audio data that is also, recovered by approved Dedicated Short Range Communication (DSRQ another wireless **interface** to the TRACker unit.

This innovative prototype (The la TRACker Brief case unit) is further...architecture.

Figure 3 Function description for programming
This application specific integrated circuit (ASIC) is to **interface** avionics with the PFN/TRAC System of wireless routing and computer networking on the surface... ...invention, which is discussed later in figures 13,14, and 15. It is intended to **interface** into specific avionics flight ...of performing redundant activities. The essential flight systems will be interfaced via a higher-level **interface** program running in the 1A Aircraft PFNs. Multiple ...the system and components. This is to be the primary objective for any PFN/TRAC **interface** component before being offered commercially - no false activations. Then, it will be offered to the...by the proper divers and programs installed in the 1A PFN and translated by conversion **interface** algorithms to format the signal for transmission to the surface and TSA terminals via the and other agencies via **internet** protocols and/or connected via direct wireless gateways. The FACT (IP) security matrix combines national... ...and analysis.

The 4th and 5th blocks on the left are all the short-range **interface** protocols DSRC or stand alone PFNs with dedicated short range communications, RFID radio frequency ID... ...like (EZ pass) and Blue tooth another short range RF technology for wireless telephones to **interface** with some automotive telematics.

These are existing technologies interfaced via ...is a short-range identification system that also can be interfaced into the PFN/TRAC **interface** platform's to repeat or digipeat as a report function to FACT and TSA terminals...tag technology is an example of a technology that would be enhanced by a PFN **interface**.

PFN/TRAC System increases RFID technology track and deliver more real time data to many ...Commercial Off The Shelf Technology example of COTS -interfacing being enhanced via the wireless PFN **interface** connection. The PFN/TRAC unit and System becomes a 1 0 flexible security sensing matrix...invention's nature and scope these DSRC Systems Under Command/or SUC technologies would write **interface** code into their protocols to immediately transfer PFN/FACT directives and data via any cellular...with existing technologies or infringe on prior art. It has always been conceived as an **interface** platform to coordinate these dispersed and disparate technologies and commercially work with these technologies to...the hybrid chip sets there will be one to synthesize protocols like the 429 maintenance **interface** does for 737 to convert from the avionics digital signal messaging to a PC platform...inherently reside in special protected compartments for the IA PFN/TRAC unit and any FACT **interface** components to fly the aircraft (as detailed in earlier related patents). The APC the auto...interfaced will provide contact from any and all of their air travel carryon devices that **interface** with other long range communications so that any wireless device can be used by the...of the invention is to progressively create the PFN/ TRAC System with an organized accountable **interface** platforra via a progressive architecture to increase security and pilot back up for human controls...the social and constitutional issues and impacts it will makes as an advanced Human Machine **Interface** Technology. The following ...technology. Informal discussion with Boeing's ATM people pointed to a long process to physically **interface** the 1 A ASIC with commercial aircraft. This aggressive of a control system on board...specific IA PFN ASIC in figure 3 for the robotics flight and the remote control **interface** configurations via appropriate testing in real-life passive use. This is to be as a tool to design PFN/TRAC **interface** avionics for retrofitting and legacy aircraft and new design as well. It is a perfect...aircraft is a green lock box, the 1A PFN/TRAC unit. It is a protected **interface** node that cannot be compromised during flight and has the primary control over vital aircraft...placed wherever appropriate throughout the aircraft. They will be secluded as well as protected and **interface** as necessary with the aircraft's electrical bus in any fashion determined suitable to command...invention, this is accomplished in a series of PFN/TRAC System products. These products first **interface** via one-way wireless reception of standard aircraft data transmissions to the surface. Additionally they **interface** non-flight related security telemetry AudioNideo/GPS and assorted sensor functions, remote control monitoring and...to perform accountable remote control, robotics and communication routing via protected and secure wireless and

Internet protocols.

Getting FACT in the air ...monitor anything without a lot of hard wiring - It also can perform as a driver **interface** platform to test equipment, monitor, recorder driver other devices (data gathering devices and actuators). However...first step in this process as it does not interfere with the flight controls or **interface** with the aircraft. It is essential however to complete the remote control scenario for the...next airport. All 429 airports are not working with the same equipment, so they cannot **interface** data through any one system for good operational flow and security.

Answer
The PFN TRAC...1 0 The No. 1 0 Figure displays the first aircraft router/test PFN/TRAC **interface** platform "The TRACker". The TRACKer Units are in the form of a carry on mobile... series of TRACker units is the lb TRACker. As exact data streams are determined the **interface**, receiver chips and protocol chips will be supported on a PC 104 plug and play accessory **interface** board. Additionally PC 104 mini computer architecture will be employed to

maintain the PC processor...it is best suited for systems compatibility to enter the matrix of computer networks and **Internet** protocols worldwide. (As a general rule to improve reliability for the PC platforms and MS...related filings has supported a proprietary data reporting and information service to public media and **web** pages for an integrated intelligent transportation management system. This can be real-time or near...it via the wireless interfaced to gateways and 5 landlines, cable, microwave or satellite with **Internet** protocols to ...the ground security matrix and not be a bother to standard air operations. Proper human **interface** procedures first between security and flight staff and then technical joining of these systems and...WXR-70OX - Weather Radar System
The PFN/TRAC technology begins with a benign approach to **interface** with aircraft avionics and other critical operations in transportation like the nations railroads. First generation... drivers and software, either through the PCMCIA multi-pin docking station or any other data **interface** port connection available as shown in the center section of figure 1 1. (to ...probably utilize a 56k modem interfaced with the GTE Airfone or the higher commercial data **interface** provided ...connection and interfacing to include existing ATM communication systems and therefore a universal PFN COTS **interface** that falls with in the nature and scope of the invention. This deign is for...is invented to be inexpensive and a rapid experimental platform with the ability to universally **interface** disparate communications and avionics messaging into the most widely used human **interface** software MS windows to review the data streams.

Other interfaces shown right of center in...It is invented to be inexpensive a rapid experimental platform with the ability to universally **interface** disparate communications and machine messaging data stream into the most widely used human **interface** software MS windows. It is designed to achieve this locally on board the aircraft via... ...assessment and alerts on the 737,that can also be sent via wireless telephony and **Internet** protocols ...different avionics messaging, wireless communications and standard computer languages like Java script. Data transmitted by **Internet** protocol will also be ...terminals or DETs for decryption and application level decoding. The units can be configured to **interface** with most any electrical device to report or record any data generated or even send...various models and capacities. Some will physically connect or rely on DSRC/ESN recognition to **interface** with belts like the IP personal PFN utility belts for airport and aircraft personnel shown... protocols to be determined for these scenarios). Most likely these testing TRACkers and (FACT Ball **interface** controllers used for the same purpose would not be the same units performing crucial air security links. But another TRACker that would **interface** with a component to ...It is important to remember that practical design and implementation for the best human machine ' **interface** structure per application will forever be changing and evolving with PFNs. But, the invention- the...future destine to be named "The Smart Machine Age,".

This design method for progressive technology **interface** development is a sound economic course as well.

One that will benefit the people, keep...streams for each airframe and appropriate TRACker unit. With the exact data streams determined the **interface**, receiver and protocol chips will be supported on a PC 104 plug and play accessory... ...manufacturers choosing this to convert their OEM progranuning to for maintenance analysis and human machine **interface** applications. This is ...data to at the local level to enter it into the wireless security matrix with **internet** protocols worldwide. As a general rule to improve reliability in this architecture minimums of extra... manufacturer and supply liners to evaluate their product performance through the regular phone system and **internet**. The public can be provided filtered data as to time and place of aircraft and even educated and given interesting **web** presentations of flights in progress (videos if public data release can be done by agreement in real-time to protect the invasion of privacy). The TRACker wireless **interface** will be used first and for most for the FACT Security system evaluation of passenger...TRACker units even though they are COTS lap tops and Mini hand held computers their **interface** design and testing will attempt to create this ASIC in Figure 15 in function at...or Systems on a Chip technology of the Ic TRACker and with the capacity to **interface** direct with avionics electrical bus systems on board and will be used in beta testing...on board to harvested their data and enter it in to the TSA

system via **internet** protocols. Or the FACT (1P) security matrix combing national and global transportation Intranets and ...program (EZ pass) and Blue tooth a short range RF technology for wireless telephones to **interface** with some automotive telematics. These are existing technologies interfaced via the PFN platform in the...activity controls (along with my hybrid chip sets to synthesize protocols like (the 429 maintenance **interface** for 737 to go from the avionics ...will reside in special protected compartments for the IA PFN/TRAC unit and any FACT **interface** components to fly the aircraft. The APC the auto Pilot computer is listed in this...circuit design to further the readers concept of the PFNTAC unit being a universal accountable **interface** platform for wireless routing and equipment control. Obviously airframes, and terrestrial vehicles have different electronics...wireless or any applicable DSRC will provide contact to any and all carryon devices to **interface** all communication devices via the 1A PFNTRAC processor(s) and the system. PFN/TRAC with ...progressive development of the wireless transceiver circuit. The scanner, translation between protocols, signal repeating and **interface** and connection structure is all part of this communication function on the left side of...to be accomplished to allow commercial wireless handsets to be utilized via the TRACker router **interface** via approved broadband wireless connections to the surface and satellites during flight. Of course with...multitude of protocol interfacing programs will create a flexible universal communication matrix or wireless by **Internet** protocol. The system will always be diverse and need planning to insure enough of the ...refined and miniaturized into SOC configurations, but always with a flexible plug, play and program **interface** capacity to grow and keep current the PFN/TRAC System and FACT security network. The... ...and system augmentation and provide a review process and integrity check both at the local **interface** and ...valuable method of delivering data to and from your aircraft. Imagine hooking up to the **internet** for the latest NexRad weather updates, or checking on the latest airport conditions and flight...the many names and technologies mentioned is to show the flexibility of the system to **interface** with the various wireless technologies and avionics. And still since the 91 1 incident there...by ticket tax structured as is the 911 and NENA today. Additionally, data presented on **web** sights with advertisers can lower GTE Airfone cost for regular use-blue tooth local routing... ...seat closest to the wireless customer. With higher application for use in security and public **web** sites and through airlines and aviation manufacturers the cost will be reduced by economy of...always and especially in other parts of the world. For this reason they are considered **interface** capable communication links for the TRACker and the future aircraft interfaced I A PFN/TRAC...the ground and in the air space the system has to provide the architecture to **interface** all the competing technologies that are approved today with the flexibility to change in the...and a loft and from lack of service or cost.

Another commercial off the shelf **interface** is a cellular router that has been designed for boats to funnel and route normal...the TRAC from start to finish. This is accomplished through feedback sensors. The TRAC may **interface** with plug, play and program connectable technology and drive other sensors, other wireless communications audio...software routing programs are running in the local TRAC processor stored in the protected PFN **interface** that receives stable power from every piece of equipment interfaced with a PFN unit and...protocols in firmware or PC compatible Modems or Cellular phone interfaces (or chipset) provide the **interface** to the Remote Management System (RMS) and for routing options. SUC and RMS interfaces may...the different wireless protocols in hybrid chipsets and firmware on Plug and play (PC 104) **interface** board or I/O cards and Universal Communicator Program This master routing/translation software package...or AM, compressed, packetized or otherwise encoded for reduced bandwidth or for transmission over the

Internet (packet audio and video).

The vast amount of possibilities and form for the TRAC are deliberately designed into the PFN **interface** and will be a continuing effort to be as inclusive as possible of all technologies...Exchange Transaction Products & Algorithms RPV (Remotely Piloted Vehicle) Technology, Security, Commercial: 128/64 bit Encryption (**Web** Transactions), Military: DES (Data ...and interfacing with equipment, via the portable WLAN network created. The system is to

start **Internet** data packet routing at the earliest point data is generated and apply this technology universally...miniaturized into SOC configurations.

There is always to be a flexible plug, play and program **interface** capacity to grow and keep current with new technology and accommodate legacy technologies in the... ...and system augmentation and provide a review process and integrity check; both at the local **interface** PFN/TRAC unit and ... consortium. The principal function of the wireless portions of the TRAC unit is to transmit **Internet** Protocol (1P) packets transparently between TRAC controller/routers and the FACT security control matrix via...filter 802. Id bridge PDUs (BPDUs) with out loops in specific intranets and support for **Internet** Group Management Protocol (IGMP) multicasting. FACT and special encryption applications The Primary Focal Node access...one proposed modality of routing via the PFN/TRAC controller/ router to construct the
flexible **web**
PFN/TRAC unit characteristics in FACT TSA air travel network
They have local event memory...up power supplies; they provide the means to add electrical functions to legacy equi ment; **interface** separate equipment and existing security
@p
systems into one management system; and respond locally and...data can be controlled via personal ID clearance and Data Encrypted 1 5 PFN/TRAC **interface** Terminal protocol (to be determined and approved by each security agency for agency specific data...layer is an example of all the individual government agencies law enforcement and security departments **interface** Layer. The flow is interactive and multidirectional throughout all the layers and all the directions through all that is **interface**. However, there are responsibilities, procedures and protocols to be determined for this interaction.

The four...their basic commercial and industrial design to be the basis of support for the hardware **interface** platforms (PFN/TRAC router
unit) at the component level
The local first responder bar or...SV, 1Ps and the TRACker units through responsive connections with their lp 1Ps personal communication **interface** belts or other personal PFN configurations; supported by the PFNTRAC/router architecture. The wireless interfaced... ...information delivered on interfaced displays, and audio systems for the best possible human to machine **interface** and control. Additionally to these wireless services would be various DSRC communication and would include ...well. This is the basis for the traceable portable network a machine messaging matrix or **web** that is flexible ...the interrogating PFN GPS if the signal did not provide tracking e.g. an RFID **interface** not another short range PFN.

Forth is locating program for non-GPS units. The scan...child. The same process would be used at an airport to track human movement and **interface** directly with the machines vehicles@, equipment and aircraft in the PFN/ ...sources their limited range is given far greater reach to deliver data..

The flexible mobile **web** allows for endless tracking and accountable robust remote activity control if deemed necessary.

For an...though-it would be ideal to have real-time monitoring at least) These units could **interface** through aircraft, cars, trains, a bull dozer, a printing press or any machine using PFN...and delivery companies like Highway Masters, UPS, FEDEX, etc. The first generation DRC PFN would **interface** these existing systems (PFN their wireless units) and **interface** their wireless protocols to immediately provide the network fabric and platform for the TSA FACT...with the DRC or protected PFN/TRAC local architecture.

The ISV PFN for industry will **interface** legacy vehicle electronics in much of the material handling, mobile baggage transport for the airport...router transceiver unit (WR) would be vaulted and protected with a versatile docking structure to **interface** the above intranets wireless and the above telematics wireless protocols. As a base or center... ...airport terminal command center communicating with all mobile objects via the various PFN/TRAC wireless **interface** router functions. All the PFNs ...and driver distraction. Other existing commercial off the shelf technologies need a safe cross environmental **interface** to manage their use and the vehicle while in transit-the DRC PFN is a ...proximity detectors, forward radar, and infrared night vision would have their data streams processed to **interface** into the movement management software, which will be the base program for automated guidance of...and cable transmissions, They still are not interrelated will enough to form one flexible roaming **web** for all ...the same wireless for in and around the airport and the inilti-pin connector or **interface** to connect up to the automobile CAN bus system and/or drive ...explained throughout the filing.

The six squares to the left in the ASIC represent the **interface** protocols from the ...any discriminatory programming and data processing along with an evolutionary capacity of the technology to **interface** with present and legacy systems and to consolidate and integrate, combine these linked circuits and...program(EZ pass) and Blue tooth a short range RF technology for wireless telephones to **interface** with some automotive telematics. These are existing technologies interfaced via the PIN platform in the...the invention.

Figure 26
These applications could involve wireless or direct connect data links to **interface** all the machines, equipment and vehicles in a specific area. The different PFNS are commercially flexible for the various technologies and companies to **interface**, access and control any or all of the airport equipment e.g. ground service people...with other assets and the FACT command and control center. This creates a flexible sensory **web** or network at the airport and an integrated system. Additionally, many equipment and vehicle PFNS...telephony and not just for tracking. It has been specified with event memory and local **interface** capacity and indeed products like the TRACker and the 1Pc PFN PDA are personal 1 P PFNs. They **interface** multiple wireless and perform routing functions they have event memory storage and perform accountable remote...other PFN/TRAC applications.

This figure is also from another filing and it is the **interface** belt concept focused on in the next five figures that is of most importance. These ... ...be the last and only critical link at times for local or nearby human machine **interface** with controls via equipment PINS and vehicle PFN controller routers.

For these 1P belt applications...has it's wireless power used to increase the capacity of TSA Security via the **interface** PFN/TRAC belt and FACT sensing network of communications. Now other readers sensors, digital cams...TRAC processor. GPS is also TRAC interfaced and there is additional memory and power to **interface** a host of other sensors readers and direct connection ...port by airlines and law enforcement by simply plunging it in a 1 P PFN **interface** belt and it is recognized logged and connected to the TSA/FACT security matrix inu...a signal to FACT control. 43 is a finger thaw print reader connected to the **interface** belt bus 37 which is connected to 42 the processor. 49 is a card scanner...law enforcement, and commercial venders, and at all Safe Bases across the nation. To first **interface** all these disparate communications and then identify them continually in the AOC/ ...and scope of the invention to connect with the PFN/TRAC system and FACT security **web** Track a Con.COM an earlier detailed PFN/TRAC product parole boar and Law enforcement...community can track the parolee on a public system by contacting their state and local **web** page. Or this information could be restricted to school offices or just police precincts (protocols...any local amber alert system or intelligent highway system, public media, civil alert system and **web** page alert. Special security applications include military, police, fireman, mental and medically at risk persons...any local amber alert system or intelligent highway system, public media, civil alert system and **web** page alert. Special security applications include military, police, fireman, mental and medically at risk persons...

Claims:

...least one IA PFN/TRAC aircraft unit, the progressive air marshal unit, and a tester **interface** in such a manner access and control all wireless, handheld or carry on devices, cellular...the at least one of the 1A PFN/TRAC unit and TRACker approved for this **interface** function and remotely triggered or energized via robotics.

12 An aircraft management system according to...via at least one 1A PFN/TRAC robotics flight programming and RC recognition capability to **interface** the air born assist RC ...7/24 duty ready squadron of RC pilots qualified on various aircraft with application specific **interface** software for the compromised flight and specific aircraft with the, squadron made up at least...FACT. A PFN/TRAC system of controller and routers as a series of protected local **interface**
platforms for a multiple of wireless technologies to:route/translate signals via conversion software progrannning... toithe equipments E/E system and control machine activities and provide a accessory **interface** platform for further interfacing either wired or wireless components to translate, route report and record...and process machine messaging data, and control machine activities as well as, provide an accessory **interface** platform for further interfacing and processing either wired or wireless to translate, route report and PFN automotive vehicle PFN/TRAC unit to

interface telematics technologies and vehicle E/E systems or automotive CAN bus technology to connect all... ...for everything on or near the earths surface via increasing the Driver Resource Center's **interface** and management service capability to include carryon cellular phones and other wireless device, and manage ...have all the appropriate wireless telephony DSRC and satellite wireless in a PFN/TRAC unit **interface** and Bus connectables to the crafts E/E systems to control and manage the craft... ...26 A PFN/TRAC system according to claim 20, further including a IPs PFN equipment **interface** PFN/TRAC unit to be a stand alone PFN **interface** and derive power from self contained batteries and solar regeneration converted to electrical power and...dispersed of consolidated, self powered, and connect with a human via various external and subcutaneous **interface** devices and sensors and to support automated remote and robotics or preprogrammed control function to...auxiliary charging and solar cell hats and shoulder scabbards to do mobile charging, with further **interface** capacity to connect hand held and portable devices Keyboard, displays readers sensors additional wireless devices...a limited range RFID passive and active tag technology with PFN/TRAC units to first **interface** reader portions of the technology and capture RDID data identifier and stored tag data and...pick up, a visible light source, an audible alert an impregnated antenna, an external physical **interface** connector, an internal physical **interface** connector, storing any object requiring such protection, a heat resistant insulating material inside the sphere...write, read or type displays and or keyboard or audio video response per any HMI **interface** means available.
42 A system according to claim 41, further comprising a non-emergency ... control commands though the PFN units connected in both commercial and govermnental intranets.

45 An **interface** of a single conductor digital transmission technology, comprising: a TRAUFACT and EAM machine messaging providing...configured for by the PFN to include at least a minimal IPs stand alone PFN **interface** supporting a sensor array inside the truck, container or compartment of an aircraft to monitor... personal PFNs via hand held contact readers connected to a person's 1P PFN belt **interface**, or a 1SV surface vehicle PFN or DRC PFN prime mover transporting the container and...with Cisco routing COTS products including at least one of a hybrid set of accountable **interface** communication

4/3K/8 (Item 8 from file: 348) **Links**
EUROPEAN PATENTS

00847112
MULTIPLE CURRENCY TRAVEL RESERVATION INFORMATION MANAGEMENT SYSTEM AND METHOD
SYSTEM UND VERFAHREN ZUM VERWALTEN VON REISEBUCHUNGSINFORMATIONEN IN VERSCHIEDENEN WAHRUNGEN
SYSTEME DE GESTION DE L'INFORMATION POUR L'ORGANISATION DE VOYAGES EN DES MONNAIES MULTIPLES ET PROCEDE CORRESPONDANT

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	Country	Number	Kind	Date	
Patent	EP	870260	A1	19981014	(Basic)
	EP	870260	B1	20011205	
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Application	EP	96929749		19960828	
	WO	96US13758		19960828	
Priorities	US	521354		19950830	

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IE; IT; LI; LU; MC; NL; PT; SE;

Related Divisions: Patent (Application):EP 1143366 (EP 2001110070)

International Patent Class (V7): G06F-017/60
NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application:English

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200149	867
CLAIMS B	(German)	200149	772
CLAIMS B	(French)	200149	996
SPEC B	(English)	200149	7885
Total Word Count (Document A) 0			
Total Word Count (Document B) 10520			
Total Word Count (All Documents) 10520			

Specification: ...commonly referred to in the travel industry as back office systems, have been developed to **interface** information from the CRS (typically sent from the CRS in the form of an accounting **interface** record ("AIR")) into a local database after a ticket issues, so that the information can...currency travel data to a corporation's main frame or internal computer, to, for example, **interface** with the corporate general ledger.

U.S. Patent No. 5,252,166 discloses a method...segment and the price associated with each segment, of booking reservations for selected segments, of **generating travel reservation** information in response to a request by the first or second locally operated computer system...selected segment for booking, booking a reservation at the price in the CRS for each **selected travel itinerary**, representing the price of the travel segment in the global currency, storing information regarding the...and land lines 30 to remotely maintained computer system 32. Computer system 32 includes communication **interface** equipment 34, computer 36, and a plurality of memory storage disks 38, 40, 42, 44... ...available pertaining to this invention is whether or not the agency requested that an accounting **interface** record ("AIR") be generated automatically every time a reservation is ticketed. An AIR is a... ...example a round-trip, non-stop flight includes two segments. The agent then selects the **best itinerary** and, thus, the best segments and requests a reservation, step 120. Upon receipt of the... the sources from the description of FIG. 3 above. The system is also designed to **interface** with vendors 222 and allow them to provide expense, refund, and commission information 224 to...above could be altered to accept data manually or via electronic systems such as the **Internet**. The system described above could also be easily modified to provide the ability to access other electronic services or systems, such as the **Internet**.

The methods and systems described above could be modified by one of ordinary skill in the art to **interface** to a corporation's main frame or internal computer system to exchange information. For example...

Claims: ...segments, (b) selecting at least one segment, (c) booking reservations for the selected segments, (d) **generating travel reservation** information in response to a request from the first or second locally operated computer system...

4/3K/9 (Item 9 from file: 349) **Links**
PCT FULLTEXT

00826096
INTEGRATED JOURNEY PLANNER
PLANIFICATEUR DE VOYAGE INTEGRE

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	Country	Number	Kind	Date
Patent	WO	200159633	A1	20010816
Application	WO	2001GB441		20010202
Priorities	GB	20002985		20000209

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GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Fulltext word count: 16149

Detailed Description:

...CRSs because they enable customers 1 5 to have direct access to them via the **Internet**. Examples of companies currently providing these services are expedia.com ebookers.com, travelocity.com, previewiravel.com, biztravel.com. and thetrip.com. Whilst the on-line user **interface** has been improved to enable non-experienced browsers to use the system, each on-line... ...now offer so called 'comprehensive' travel information and reservation facilities. All are accompanied by map **viewing options**. local resort information, countrv information and some degree of journey planning. However, they feature only... ...planning.

3o Recently, a few autoroute planning services have been created for use over the **Internet**.

11:@
Examples of these are mapquest.com, rriapblast.ccm and mapsonus.com. While successful and... ...is the first service to offer a complete European road route planning service over the **Internet**.

Germanv's national railwav (bahn.de) has set Lip an **Internet** Journey planning facility covering Continental Europe. The service offers only train planning, road jourrievs, for... ...Out different termini combinations until one combination a possible option.

provi
All of the above **Internet** 'ourney planners are limited to a single mode of transport and do not address any...made the task of data collection and svstem intearation difficult. Even the recent emergence of **Internet** based jourriev planners in Europe. which enable users to make bookings themselves directly, typically only ... ...Furthermore. the planner can be arranged to provide a real-time reservation service via the **Internet** such that the best trip can simply be booked by one mouse click.

The integrated...availability takes part simultaneously to routes construction and multiple route engines (road, timetable or direct **web** links') are called to provide the relevant information. Final 1 5 processing then delivers an ...to avoid a data access bottlenecks. Access to the information system by a plurality of **web** users 18 is provided via the **Internet** 20.

Each of the system databases IO, which have a flat file structure (though in... ...transport.

The load balancer 16 provides a buffer between the servers 12, 14 and the **Internet** 20 and acts to distribute service requests to the least busiest server 12. 14. This... ...Each of" the servers 12. 14 comprises a front server 22 which functions to create **web** M pages for displaying the results of the searches together with other **web** pages. Home pages which the user 1 8 accessing the system encounters first. are home pages of the **web** site hosted bv the ISP (**Internet** Service Provider). The front server 21. of each server 12, 14 is direct1v connected to... ...pricing information for some of the modes of transport for presenting as results to the **web** users 1 8.

A live link 28 to the Intemet2O is also provided and connected to the front server 22. The live link 28 uses a generic **web** engine (not shown) which communicates with other **web** sites using configuration files. The **web** engine is also responsible for supporting **Internet**
P 1 1
connections from the users 18 through the **Internet** 20 to the system. The physical links are through a combination of **web** http links using standard communications over, for example, a 2Mbit/second high-speed link to the hostin(ISP and direct ISDN connections to the desired remote locations. The **web** engine is configured to maintain use connections of a short time duration for each **web** site access from the users I 8 to the system rather than holding these connections ... ...between the user and the system are achieved without the use of ai @v cookies (**Internet** user identifying code segments).

The live link 28 enables timetablf, information which is not held in the local system database IO to be accessed remotely using the **Internet** 20. In the present embodiment, the links are to timetabling databases of a train operator... ...provi I
link 28 also provides access to other sources of related inforination on the **Internet** 20 such as local guide maps and local cinema listings which may also be presented to the **web** user 1 8.

Referring to Figure 2. the way in which the system operates to... ...to the svstem commences at 30 with a user I 8 requesting access over the **Internet** 20 to the system's home page using its URL (Universal Resource Locator). In 1... ...the multi-modal travel information svstem.

The submitted form is received at 34 from the **Internet** 20 by the load balancer 16 of the svstem. The load balancer 16 routes the...and 48 respecti-@,7elv and involve making use of the live link 28 to the **Internet** 20. This is because the required timetable and other desired information relating to a par... ...databases 10. The service providers' on-line travel information databases 50 are accessed via the **Internet** 20 and queries are made based upon the content of the route records being processed... ...case.

all of the information requested by the coach service provider is supplied by the **web** engine until the desired information is retrieved. However, the train service provider's database is accessed directiv by the **web** engine using an ISDN line connection. This connection is made directlv into the service provider's database which bypasses the standard **Internet** entrance used bv most other enquiries and hence speeds up access times.

This is only...are then displayed back at 56 to the user 18 by being presented on an **Internet** results page of the multi-modal travel information system's **web** site. The order of displaying the possible journey options is determined in the ranking stage... ...requests were made. Journey booking is achieved by using the live link 28 to the **Internet** 20 to access the on-line booking services provided by the service providers. Some of... ...an alternative 'ourney option.

Further services which are available to the user 1 8 include **Internet** links to city guides, infori-nation regarding location of route services avai able for any... the user starts the process by requesting a home page at 30. On reaching the **web** site, the user enters one location at 200, either a start or an end point namely via **Internet**, however, in this case there ai-e multiple different airline sites which are connected to... ...I 0 A further difference is that the present embodiment is also linked via the **Internet** to an on-line booking site such as e-bookers.com. This connection advanta eously...

Claims:

...stores comprise remote databases accessible by via a 1 5 communications network such as the **Internet** and the sending means is arranged to transmit some of the requests to these remote... ...to Claim 60 or 6 1, further comprising means for obtaininu information related to the **selected travel option**, such as weather Z:@reports or city guides, the obtaining means being arranged to retrieve the desiredl t@infori-nation over a communications network such as the **Internet**.43. A method of providing integrated joumey travel information between two userselected locations. the...

4/3K/10 (Item 10 from file: 349) **Links**
PCT FULLTEXT

00800764
GRAPHICAL USER INTERFACE FOR TRAVEL PLANNING SYSTEM
INTERFACE UTILISATEUR GRAPHIQUE POUR SYSTEME DE PROGRAMMATION DE VOYAGES
GRAPHICAL USER **INTERFACE** FOR TRAVEL PLANNING SYSTEM
INTERFACE UTILISATEUR GRAPHIQUE POUR SYSTEME DE PROGRAMMATION DE VOYAGES

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	Country	Number	Kind	Date
Patent	WO	200133471	A2-A3	20010510
Application	WO	2000US41657		20001027
Priorities	US	99431679		19991101

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[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

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[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

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Filing Language: English
Fulltext word count: 2966

English Abstract:

A graphical user **interface** for a travel planning system is described. The graphical user **interface** is implemented as a **web** page and includes a tabular region of the graphical user **interface** that displays summarized travel options and comprises a plurality of cells that act as controls. The **interface** also includes a second region that displays **selected travel options** resulting from filtering a set of travel options in accordance with a control actuated in...

French Abstract:

La presente invention concerne une **interface** utilisateur graphique pour systeme de programmation de voyages. Cette **interface** utilisateur graphique est mise en oeuvre sous forme d'une page **Web** et comprend une region tabulaire qui affiche des options de voyage sommaires et comprend plusieurs cellules qui jouent le role de commandes. L'**interface** comprend egalement une seconde region qui affiche des options de voyage selectionnees, resultant du filtrage...

Detailed Description:

GRAPHICAL USER **INTERFACE** FOR TRAVEL PLANNING SYSTEM
BACKGROUND
This invention relates generally to computerized travel planning systems.

Travel... ...geographic scheduling and pricing information. In particular, travel planning systems that 10 operate over the **Internet** are known. Some computer travel planning systems, such as **Internet** sites, generally produce a set of planning options, or itineraries for the traveller to consider... ...important to the traveller.

SUMMARY
According to an aspect of the invention, a graphical user **interface** for a travel planning system includes a tabular region of the graphical user **interface** that displays summarized travel options and comprises a 25 plurality of cells that act as controls and a second region that displays **selected travel options** resulting from filtering a set of travel options in accordance with a control actuated in... ...more aspect of the present invention.

With a summary table as part of a user **interface** to the travel planning system, travellers can select individual bins inorder to focus on a... ...that specific travel option. The summary table

can appears in the top frame of a **web** browser.

BRIEF DESCRIPTION OF THE DRAWINGS
FIG. 1 is a block diagram of a client server travel planning system particularly operable over the **Internet**.

FIG. 2 is a diagram of a query screen for a graphical user **interface** implemented as a **web** page from a **web** browser.

FIGS. 3-5 are diagrams of **web** pages depicting results of executing a query for a round trip based on information entered through the query screen of FIG. 2.

FIGS. 6 and 7 are diagrams of **web** pages depicting details of travel options provided in the **web** pages of FIGS.

3
DESCRIPTION
Referring to FIG. 1, a travel planning system 10 is ... ...in copending U.S. Patent 10 Application Serial No.09/109,873, entitled "Graphical User **Interface** for Travel Planning System", filed on July 2, 1998 by Carl G. DeMarcken et al... ...and incorporated herein by reference. Other travel planning systems such as those on 15 the **Internet** can also be used.

The scheduler process 16 provides itineraries to a faring process 18... ...set of pricing solutions is obtain from a user entering data in a graphical user **interface** as will be described below. In addition, the set of pricing solutions 25 are also displayed to the user through the graphical user **interface**.

Referring now to FIG. 2. a **web** page 50 that is part of a graphical user **interface** for the client process 36 is shown. The **web** page 50 allows the user to construct a query 30 which can be executed by the server process 16 to produce flight plan options for the user.

The **web** page 50 includes a query table 52 which is a tab table 54 here comprised...a user to provide a 20 complex arrangement of segments corresponding to multisegmented flights.

The **web** page 50 also allows for entry of passenger information such as the number of adults... ...infants which may be important in determining the fare 25 price for a ticket. The **web** page 50 also allows a user to have the server process check seat availability on... ...return travel options for which there

is seat availability.

Referring now to FIG. 3, a **web** page 70 that depicts results from the server process 16 executing a query entered via the query page (FIG. 2) is shown. The **web** page 70, includes a table 72 that summarizes travel options. The travel option summary table... ...as shown in FIGS. 4 and 5.

A general procedure to construct the graphical user **interface** is given below.

1) Obtain list of query-specific travel options.

2) For each criteria...used within the interior cells or at the edges of the table.

The graphical user **interface** is populated by obtaining a list of query-specific travel options. For each criteria the...

Claims:

CLAIMS

A graphical user **interface** for a travel planningsystem comprises:a tabular region of the graphical user **interface**5 that displays summarized travel options and comprises aplurality of cells that act as controls;a second region that displays **selected traveloptions** resulting from filtering a set of travel options inaccordance with a control actuated in the tabular region.

2 The graphical user **interface** of claim 1 wherein the controls in the tabular region are arranged in a rectangularmanner.15 3. The graphical user **interface** of claim 1 wherein thecontrols in the tabular region are arranged in a column ... ...accordance with a summary20 travel option corresponding to the control.

4 The graphical user **interface** of claim 1 wherein the controls in the tabular region are arranged in rows and... ...with a summary travel optioncorresponding to the selected control.30 5. The graphical user **interface** of claim 1 wherein thecontrols in the tabular region are arranged in rows and... ...options corresponding to the intersection of theselected row and column.

6 The graphical user **interface** of claim 1 wherein the controls are links to routines that invoke an appropriateenumeration algorithm.10 7. The graphical user **interface** of claim 1 wherein the**interface** is implemented as a **web** page in a **web** browser andthe controls are hyperlinks to the enumeration routines.

8 The graphical user **interface** of claim 1 wherein the 15 tabular region having the controls are further arranged as... ...an airline tab, an airporttab and a flight time tab.

9 The graphical user **interface** of claim 1 wherein the 20 graphical user **interface** is represented in a first **web** pageand the results region **displays itineraries** and includeslinks that can invoke a second **web** page to display details ofthe itineraries.25 10. A method for displaying travel options...

4/3K/11 (Item 11 from file: 349) **Links**
PCT FULLTEXT

00774507
GRAPHIC-INFORMATION FLOW METHOD AND SYSTEM FOR VISUALLY ANALYZING PATTERNS AND RELATIONSHIPS
PROCEDE ET SYSTEME APPLICABLES AUX INFORMATIONS GRAPHIQUES ET DESTINES A L'ANALYSE VISUELLE DES MOTIFS ET DES RELATIONS

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	Country	Number	Kind	Date
Patent	WO	200108053	A2-A3	20010201
Application	WO	2000US40412		20000718
Priorities	US	99359544		19990722

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 12893

Detailed Description:

...as a printed or digital illustration. CADD (Computer-Aided Design and Drafting) is used to **create plans** of products, vehicles, buildings, utility systems,
and other three-dimensional objects. CADD employs layering technology...interfaces rely on the scrolling of palette

scroll bars to extend the legend and to **view selections** for queries; this scrolling breaks the flow of data selection and severely limits the organization...a place or a set of objects to be compared. This single, compact computer user-**interface** with layered indexes, keys, and content enables discrete sets of material from a dispersed network... ...can smoothly browse. The software calls from a multimedia database to display a graphical user-**interface** (GUI) and alter it in response to user commands. The GUI has a central layered...s activity. To enhance this dynamic capability, the system includes an expanded link to the **Internet** or other network connections 50 so that the vast array of **Internet** or network source materials may be accessed and combined with the base and topical data... ...two dimensional display. In addition to the role as a source for database information, the **Internet** and other network connections permits remote process control of the database content, including access and...activity patterns collected in the user-tracking database 404 to be viewed on a map **interface** 403 by system operators 401.

Figure 2c depicts in exploded view a slotted-format display...190 and the system calling up the program from a CPU, CD-ROM, network, or **internet** server. The start-up screen is displayed with a base map or a directory of...this is the process whereby authorized Editors add information via a password-protected back-end **interface** (see Figure 4, 503). When an Editor or User clicks on a symbol tool in...the User may thereby cancel the deletion.

Editing may also be done via a database **interface**. If the Editor/User
clicks on "view database" in the control panel or in the... ...rows and enter text in the database. The Editor/User may toggle between the database **interface** and the revised map to view and modify changes.

Users may save, print, and publish... ...publish" button or menu, the mapset is published online.

EXAMPLES
An exemplar GUI (Graphical User-**Interface**) layout and its components
shown in Figure 6a is designed to organize information from an...in 6a. Figure 6d shows another embodiment of the GUI layout within a World Wide **Web** browser. The user has undertaken a search for a selection of hotels by clicking the...new data are called for, the system pulls from third-party databases and public information **Web** sites; and it dynamically refreshes the display with the most current entries. Pointing at a...control panel has now replaced the key (it can be hidden by clicking the topic **selector** " **Travel Planning**"). The > and < 1 5 arrowheads in the key can be clicked to flip forward and...is collected and updated dynamically from field stations. The scientists have used the back-end **interface** to add their research data via both a database **interface** and a map **interface**. The biologist views a chart of weather data, Figure 7i, onto which can be layered...variety of map displays derived from the same
database. The components of the graphical user-**interface** of the present
invention are depicted as active regions on the screen of a User...

4/3K/12 (Item 12 from file: 349) **Links**
PCT FULLTEXT

00555978
MAKING A RESERVATION OVER THE INTERNET WHERE THE USER IS CONNECTED TO A DESTINATION BASED TRAVEL AGENT
RESERVATION VIA **INTERNET** PAR CONNEXION AVEC UN AGENT DE VOYAGE EN FONCTION DE LA DESTINATION
MAKING A RESERVATION OVER THE **INTERNET** WHERE THE USER IS CONNECTED TO A DESTINATION BASED TRAVEL AGENT
RESERVATION VIA **INTERNET** PAR CONNEXION AVEC UN AGENT DE VOYAGE EN FONCTION DE LA DESTINATION

Patent Applicant/Patent Assignee:

- **ISAACSON L Robert;**
  ; ;
- **KATZ Frank;**
  ; ;
- **KAHN David;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	200019351	A1	20000406
Application	WO	99US22659		19990929
Priorities	US	98102377		19980929
	US	99406869		19990928

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
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Fulltext word count: 9283

Detailed Description:

MAKING A RESERVATION OVER THE **INTERNET** WHERE THE USER IS CONNECTED TO A DESTINATION BASED TRAVEL AGENT
CROSS-REFERENCE TO RELATED... ...travel agencies, online agencies, i.e., agencies which are accessible through the use of the **Internet**, have recently begun to conduct nearly wholly-automated transactions between a traveler and a remote... ...far, however, such online agencies typically have tended to avoid live human assistance at their **Internet** sites so as to be as nearly wholly-automated as possible. Without the advent of... ...online agencies are discovering that travelers tend to utilize the searching services offered by their **web** sites, while choosing to interact

with a human operator at a different agency for actually... preferred embodiment of the present invention.

FIG. 8 is a screen print of a representative **web** site home page utilized in a preferred embodiment of the present invention.

FIG. 9 is...The travel system IO preferably incorporates a travel sub-system 12 which provides a communications **interface** between the traveler and one or more destination-based travel agencies, such as destination agencies... ...by communicating with a travel system server 24 via a network 26, such as an **Internet**, PSTN, Intranet or other suitable communications network. The network 26 preferably provides intercommunication of the ...the like. The processor 502 accepts instructions and data from memory 503 over a local **interface**, such as a bus(es) 308. The system also includes an input device(s) 506... ...access to the travel system as depicted in block 30, such as by accessing an **Internet web** site hosted by the travel system server 24. Typically, such a **web** site may be accessed by travelers through the use of an **Internet** connection and a browser program which typically resides in the traveler's computer system. Browser programs, also called "**web** browsers," are client applications that enable a user to navigate the **Internet** and view **web** sites on the display screen of the traveler's computer. A representative home page that may be displayed to the traveler once the **web** site of the travel system has been accessed is depicted in FIG. 8.

The representative... ...traveler with access to various information which may be displayed on various pages of the **web** site,
10
for instance. Access to these other pages may be provided in a conventional... ...32-52, which when actuated, such as by "double-clicking," advance the traveler through the **web** site to the page or pages corresponding to the actuated tab. Imbedded textual links, such... ...54 and 56, also may be utilized to provide access to other pages of the **web** site. Additionally, the **web** site may provide a communications link between the traveler and an agent of the travel... ...58 and/or an audio link 60, described in detail hereinafter.

Through use of the **web** site, the traveler may choose to research various travel service options, including destination and activity... ...provided through the use of icons, such as icons 74-86, for instance.

Through the **web** site, the traveler also may choose to research particular activities of interest. Access to such...agency to communicate with the travel sub-system, such as through the use of an **internet web** site, whereby the destination-based travel agency is prompted to
14
enter the aforementioned information... ...issuance, may allow the destination-based travel agency to access the various portions of a **web** site for entering information. Upon approval by the travel system, the destination-based travel agency... ...226, among others. RPd 220 typically is constructed by a traveler accessing the travel system **web** site (FIG. 8), and by actuating the create/edit profile tab 38, such as depicted... ...in FIG. 16. In some embodiments, the travel system may then read a traveler's **internet** temp files (block 232), such as are typically stored in the memory of the traveler...traveler (block 284). These links may advance the traveler to various pages of the system **web** site, such as to a vacation plan page (block 286) or flight page (block 288... ...find-a-flight page 316.

Preferably, find-a-flight page 316 prompts the traveler to **select flight reservation** information, such as air travel preferences 3 18, departure details 320, and return details 322, among others. The traveler also may **view itineraries** which the traveler has previously completed, such as by actuating the "saved trip plans" icon... ...generates a flight reservation. For instance, once the traveler selects one or more of the **displayed flights**, the travel system may display a list of the selected flights 360, such as depicted... ...representative

screen print of FIG. 28. Confirmation of the traveler's desire to purchase the **selected flight reservations** is then requested, with such confirmation being requested in various manners, such as by requesting...such as a GDS, but also may have additional time to search supplier and distributor **web** sites to find an airline ticket that meets the traveler's criteria. If a matching...

Claims:

...said destination-based travel agencies corresponding to said intended travel destination is facilitated by an **Internet web** site hosted by said travel sub-system such that said intercommunication occurs via an online... ...traveler,

5 The travel system of claim 2, wherein said travel sub-system hosts an **Internet web** site configured to display a list of each of said travel destinations corresponding to each... ...traveler such that upon selection of a22ific one of said travel destinations, said **web** site displays said destinationspeciinformation corresponding to said specific one of said travel destinations... ...travel reservation selections.

14 The method of claim 12, wherein the communications network is the **Internet**, and wherein the step of enabling the traveler to communicate comprises hosting a **web** site on the **Internet**, said **web** site being accessible by the traveler.

15 The method of claim 12, further comprising the via the **Internet**, said method comprising: providing a **web** site on the **Internet**. the **web** site being accessible by the traveler; receiving travel information from the traveler via the **web** site; automatically accessing a database of travel reservation selections based upon the travel information provided... ...traveler; automatically providing the traveler with selected ones of the travel reservation selections via the **web** site, the selected ones of the travel reservation selections corresponding to the travel information provided... ...traveler; allowing the traveler and a representative of the travel service to communicate over the **Internet** such that the representative may 'de the traveler with additional travel information based upon a...

4/3K/13 (Item 13 from file: 349) **Links**
PCT FULLTEXT

00538780
TRAVEL PLANNING SYSTEM
SYSTEME DE PLANIFICATION D'ITINERAIRES

Patent Applicant/Patent Assignee:

- **ITA SOFTWARE INC;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	200002153	A1	20000113
Application	WO	99US14964		19990701
Priorities	US	98109327		19980702
	US	98109328		19980702
	US	98109486		19980702
	US	98109622		19980702
	US	98109871		19980702
	US	98109873		19980702
	US	98109876		19980702

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 26931

Detailed Description:

...to one aspect of the invention, a travel planning system includes a server process that **determines travel planning** information in response to travel request information and a client process that receives said travel...is a block diagram showing the relationship between the pricing graph and a graphical user **interface** for the travel planning system of FIG. 1.

FIG. 19 is a flow chart showing various enumeration functions.

FIG. 20; is a diagram of a window depicting a user **interface**.

FIG. 21 is a diagram of a window used in an initial query;
FIG. 22... ...22 can be any local or wide area network or an arrangement such as the **Internet**.

The clients 30a-30c are preferably smart clients.

That is, using client 30c as an...graph (DAG) representation. The enumerated set of pricing solutions is rendered in a graphical user **interface** 41 on the client monitor 40 (FIG. 1) in a manner as will be described...Referring now to FIG. 20, a window 350 that is part of a graphical user **interface** of the client process 36 (FIG.

3) is shown. The graphical user **interface** permits the user to access inter alia the enumeration processes 304, value functions 306 and invalidate routine 307. The graphical user **interface** has user selectable controls 352 such as "origin" and "destination". There are also controls for...button of a computer mouse and so forth. For example, what is displayed in this **interface** are the itineraries (which are TERMINAL NODES in the pricing graph 381) along with their... time, a number of itineraries and number of extra itineraries to discard.

Each of the **display options** referred to above make use of one or more of the value functions and processes... ...Accordingly, the pull down menus as well as the other controls on the graphical user **interface** are the user **interface** to the "value" functions and enumeration processes described above.

Referring now to FIG. 27, a...

Claims:

...a manipulation process that operates on the travel planning information and produces agraphical user **interface** representative ofinformation in the travel planning system, said1 0 graphical user **interface** comprising:a region that displays a metric of theitinerary information in a graph representation... ...said process is aclient process and said method further comprises:a server process that **determines travelplanning** information in response to travel requestinformation.
3 The system of claim 1 wherein said... ...not correspond to a user preference.
9 The system of claim 1 wherein graphical user **interface** further comprises:a user query section comprised of a plurality ofcontrols that can be... ...information in

auser query.
10 The system of claim 9 wherein the graphical user
interface further comprises:a field comprised of a plurality of iconsrepresenting airlines that are associated... ...the graph representation.1 0
11 The system of claim 1 wherein the graphical user
interface further comprises:a user query section comprised of a plurality ofcontrols that can be... ...itineraries in the graph representation.
12 The system of claim 12 wherein the graphical user
interface further comprises a plurality of iconsassociated with locations that are represen@ed in thegraph representation.
13 The system of claim 12 wherein the graphical user
interface further comprises a field that displays atotal fare associated with a corresponding itinerary inthe graph representation.
14 The system of claim 12 wherein the graphical user
interface further comprises at least one control thatselectively prunes from the graph representationitineraries that ... ...control.
16 The system of claim 12 wherein the graph
representation in the graphical user **interface** is ahistogram.
17 The system of claim 12 wherein the graph
representation in the graphical user **interface** is a bargraph.
18 The system of claim 12 wherein the graphical user
interface further comprises:a itinerary region that displays a selpcteditinerary including information pertaining to segmentsof the itinerary.
19 The system of claim 19 wherein the graphical user
interface that displays a selected itinerary ispresented by selecting one of the itineraries in thegraphical region that **displays itineraries**.
20 The system of claim 19 wherein the graphical user
interface is displayed in a separate window.
21 The system of claim 12 wherein the graphical user
5 **interface** that displays metrics of itineraries showsresults of activating at least one control thatselectively prunes itineraries.
22 The system of claim 12 wherein the graphical user
interface further comprises a plurality of icons havinga visual appearance and that represent travelinformation... ...5 prunes itineraries by changing a visual presentation ofthose icons in the graphical user **interface** that do notcorrespond to itineraries that remain in the graphicalregion after pruning.
23 The system of claim 22 wherein the graphical user
interface that displays metrics of itineraries showsitineraries for different slices of a journey indifferent...

4/3K/14 (Item 14 from file: 349) **Links**
PCT FULLTEXT

00538779
PRICING GRAPH REPRESENTATION FOR SETS OF PRICING SOLUTIONS FOR TRAVEL PLANNING SYSTEM
REPRESENTATION DE LA COURBE DES TARIFICATIONS DES ENSEMBLES DE SOLUTIONS TARIFAIRES POUR UN SYSTEME DE PLANIFICATION D'ITINERAIRES

Patent Applicant/Patent Assignee:

- **ITA SOFTWARE INC**; One Kendall Square, Building 400, Suite 411, Cambridge, MA 02139 US; US(Residence); US(Nationality)

Legal Representative:

- **MALONEY Denis G(agent)**
  Fish & Richardson, P.C., 225 Franklin Street, Boston, MA 02110-2804; US;

	Country	Number	Kind	Date
Patent	WO	200002152	A2-A3	20000113
Application	WO	99US14961		19990701
Priorities	US	98109327		19980702
	US	98109328		19980702
	US	98109486		19980702
	US	98109622		19980702
	US	98109871		19980702
	US	98109873		19980702
	US	98109876		19980702

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; SD; SL; SZ; UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English
Fulltext word count: 27970

Detailed Description:

...is a block diagram showing the relationship between the pricing graph and a graphical user **interface** for the travel planning system of FIG. 1.

FIG. 19 is a flow chart showing various enumeration functions.

FIG. 20; is a diagram of a window depicting a user **interface**.

FIG. 21 is a diagram of a window used in an initial query;
FIG. 22... ...22 can be any local or wide area network or an arrangement such as the **Internet**.

The clients 30a-30c are preferably smart clients.

That is, using client 30c as an...graph (DAG) representation. The enumerated set of pricing solutions is rendered in a graphical user **interface** 41 on the client monitor 40 (FIG. 1) in a manner as will be described...Referring now to FIG. 20, a window 350 that is part of a graphical user **interface** of the client process 36 (FIG.

3) is shown. The graphical user **interface** permits the user to access inter alia the enumeration processes 304, value functions 306 and invalidate routine 307. The graphical user **interface** has user selectable controls 352 such as "origin" and "destination". There are also controls for...button of a computer mouse and so forth. For example, what is displayed in this **interface** are the itineraries (which are TERMINAL NODES in the pricing graph 381) along with their... time, a number of itineraries and number of extra itineraries to discard.

Each of the **display options** referred to above make use of one or more of the value functions and processes... ...Accordingly, the pull down menus as well as the other controls on the graphical user **interface** are the user **interface** to the "value" functions and enumeration processes described above.

Referring now to FIG. 27, a...

Claims:

...The method of claim I wherein the method is
executed as a server process that **determines travelplanning** information in response to travel request5 information from a client process that receives said... ...The method of claim 11 wherein the client processfurther comprises:generating a graphical user **interface**, saidgraphical user **interface** having a graphic region thatdisplays a metric of the itinerary information in agraph... ...claim 25 further comprising:specifying information in a user query section ofthe graphical user **interface**;representing in a field comprised of a plurality oficons airlines that are associated with... program product of claim 33 whereinthe product is executed as a server process that**determines travel planning** information in response totravel request information from a client process thatreceives said travel...of claim 51 whereinthe client process further comprises instructions to:generate a graphical user **interface**, said graphicaluser **interface** having a graphic region that displays ametric of the itinerary information in a graph ... ...furthercomprising instructions to:specify information in a user query section of thegraphical user **interface**;represent in a field comprised of a plurality oficons airlines that are associated with...

4/3K/15 (Item 15 from file: 349) **Links**
PCT FULLTEXT

00444847
TRAVEL RESERVATION AND INFORMATION PLANNING SYSTEM
SYSTEME D'INFORMATION ET DE PLANIFICATION POUR LES RESERVATIONS DE VOYAGE (TRIPS)

Patent Applicant/Patent Assignee:

- **DELORME PUBLISHING COMPANY INC;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	9835311	A1	19980813
Application	WO	98US1823		19980130
Priorities	US	97797471		19970206

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 48411

Detailed Description:

...to
information related to travel service providers via interconnected computer networks defined broadly as 'the **Internet**." Such information includes airline schedules, flight availability, and limited ticketing, hotel locations and telephone numbers...to give users greater
flexibility in discovering travel possibilities include a reservation access system named **Internet** Travel Network located at http://www.itn.net, which includes
access to an online booking... ...provider with separate fees. Microsoft (TM) at http:
www.expedia.msn.com offers a similar **Internet Web** Site "travel agency" to book flights, hotel rooms, and rental cars; to participate in travel... ...the travel
5
route, or related to the user's selected travel time frame. Other **Internet** sites concentrate on local directory listing information but do not provide readily useable travel planning... ...e.g.,
CitySearch (TM) and MetroBeat (TM) at http:
www.citysearch.com and
Bigbook's **Internet** Yellow Pages at http:
www.bigbook.com.

In addition to the problems associated with an ...their intended departure point, final destination, any intermediate stopovers, plus the travel time frame. Existing **Internet** travel information sites have taken these same limitations--poorly compensating in some cases by giving... ...access by indiscriminate "hot

8
links" to an overwhelming variety, number, and selection of other **Internet** sites containing undifferentiated and uneven amounts of travel information along with circular hot links to...computer display, if desired, and a computer link. The computer link may be through the **Internet** or directly to a TRIPS online facility. A set of electronic maps is provided for... and cancellations, billing, credit account validation, debit
transfers, and "cyber-money" transfers. Typically, a TRIPS-**generated itinerary** document including maps and tickets will be printed on a laser printer or some
similar...designed to produce a user-determined digital map on a display related to a user-**determined travel plan**. Most importantly, the process steps further include linking travel information associated with the geographic information... ...or other media.

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FIGURE IC depicts a preferred TRIPS geographic travel planning
graphic user **interface** or GUI display with WHERE?, WHAT/WHO?, WHEN? and
HOW? main input menus and related flow chart of the overall TRIPS user **interface**, providing for a variety of sequential topical, geographic, temporal and transactional travel planning operations.

FIGURE... ...modem link 107 with one or more private or public computer
networks such as the **Internet**. Links or distributed communications among
computers are preferred for online access to updated TRIPS information...with one or more TRIPS service providers, via a modem link 107, typically over the **Internet**. Once online, the preferred embodiment lets the user I'view" or download updated TRIPS map... ...components) - for example, from a central TRIPS service bureau, or by means of a TRIPS **Internet** low-tech PC functioning primarily or solely as an **Internet** or online travel reservation information and planning system terminal in the user's home or...custom" travel plans output in various formats or media by the manipulation and adjustment of **selectable travel planning** capabilities. Fully articulated TRIPS embodiments, for example, typically include optional capabilities such as: input and...as detailed
hereinafter. As such symbolic devices are made to appear on a TRIPS map
display, **itinerary**, topical item and/or reservation confirmation, the TRIPS user is enabled to visually or auditorially... ...C
FIGURE IC illustrates a preferred TRIPS map display 152, comprising
one typical TRIPS user **interface**, corresponding to the general TRIPS **interface** at 209 in FIGURE 2, detailed hereinafter. On the map display **interface** 152 in
FIGURE IC, a user has called up the four,main TRIPS input menus... ...menus at 155, 1579 161 and 163 in FIGURE IC. Often using the map display **interface** at 152, ordinary TRIPS user travel planning sessions are regularly started relative to the WHERE...shown in FIGURE IC at 152, a preferred TRIPS embodiment defaults
to a graphical user **interface** (GUI) in the form of a dynamic, multi-scale map display readily manipulated and queried...other
TRIPS Subsystems can also be accomplished using the map display GUI or
graphical user **interface** shown at 152. At 167, for example, there appears a map annotation (or Map Note... ...for example, icons, indexes, listings, topical trees, and/or graphical topical universes, among possible graphic **interface** displays. This subject-matter or topical GUi could
also convey overlapping, embedded geographic, temporal or... ...163, can also additionally or alternatively be implemented via a GUI or transactional graphical user **interface** - e.g. an 1 0 interactive presentation of the arrivals, departures, times, costs, seat availability...or statistical bookkeeping on the usage of various items or facilities on TRIPS online or **Internet** sites. At 163 in FIGURE 1B, the HOW? main input
menu also includes sub-menus...in FIGURE 3, respectively, for GEOGRAPHIC, TEMPORAL, TOPICAL, and ACCOUNTING DATA.

In FIGURE 2, the **Interface** & Interaction Bus at 209 generally
represents TRIPS processes for user-controlled sequencing, variable integration and... ...topical and accounting travel information in response to TRIPS user input travel inquiries. The TRIPS **Interface** & Interaction Bus 209 functions to furnish flexible user-directed access
to, from and among the... ...and 217 within
TRIPS 203. In advanced or fully articulated TRIPS implementations detailed hereinafter, the **Interface** & Interaction Bus 209 also manages integrated and/or automated operations. Integrated TRIPS operations include the...in geographic and temporal order of planned travel. Hereinafter, for purposes of preferred online or **Internet** embodiments, FIGURE 4 breaks down TRIPS retail output, differentiating access by registered or enrolled users... ...VALUABLE
OUTPUT 447 as opposed to FREE OUTPUT 445 which is made available to
anonymous **Internet** "surfers," as an enticement to become members or
registered users. The retail consumer output block... arrangements; and (3) tracking and dispensing statistical data or "ratings" for the TRIPS online or **Internet** site usage or "hits" on the overall site and/or specified parts thereof - as an... ...sessions.

For example, suppose John Jones from Knox, Indiana "logs onto" a
TRIPS online or **Internet** site. The basic user identity data (name, address, membership code and so forth) is entered... member)
registration procedures and associated "free" versus "valuable" output/access differentials are preferable for TRIPS **Internet** or online embodiments. Manual
and/or automated sequencing of the component operations that make up... ...4, with a typical "splash
screen" or "home page" Greeting 403 which introduces the TRIPS **Internet** travel planning site's features, capabilities and rules. At 404, inveterate "surfers" can opt for... ...information. Alternatively, the user can choose the "SEE TERMS" prompt at 404, and study the **Internet** site Terms + Conditions at 405, including: e.g. legal notices, licensing and contractual terms, restrictions...input menu at 163 in FIGURE 1 C. To receive
membership privileges on a TRIPS **Internet** site, users enroll through the USER
REGISTRATION sub-menu, or by comparable means. Users register... ...credit card numbers and other personal or business data required or requested by the TRIPS **Internet** site proprietor. On account of such enrollment, or by user password entry, or by equivalent... ...planning and more VALUABLE OUTPUT 447 in FIGURE
4. At the discretion of the TRIPS **Internet** site operator, anonymous online visitors or unaccountable **Internet** "surfers" are allowed access to at least restricted TRIPS functionality, services and/or travel information... ...identified TRIPS consumer over the anonymous user or cyberspace "surfer" - are preferable, especially for commercial **Internet** or online embodiments of TRIPS. The general aim is to attract "traffic" with FREE OUTPUT 414
correspond to the TRIPS **Interface** & Interaction Bus 209 in FIGURE 2 -- as well
as the main input menus at 155... ...and/or travel information output, as determined by the proprietor or operator of the TRIPS **Internet** or online site .

Through the Main Menu at 413 and/or the Interaction Bus 414... ...or discrete sets of Subsystem operations.

Mirroring the central or pivotal role of the TRIPS **Interface** & Interaction Bus at 209 in FIGURE 2, both the Main Menu 413 and Interaction Bus...more types or specific scheduled events - working just in 419. As determined by the TRIPS **Internet** site proprietor or operator, output from such singular operations is produced at 445 and/or...flow chart. During a particular TRIPS travel planning session using a fully articulated online or **Internet** TRIPS embodiment for example, subsequent or ensuing sub-sessions can be related to or integrated...midst of an ongoing

subsession or from the Main Menu 413, users of preferred online/**Internet** TRIPS embodiments can set up or arrange for sequential operations or sub-sessions
in any...or
accounting) TRIPS data records. Therefore the FIGURE 4 flow chart of the
TRIPS user **interface** allows for less related, or even disconnected, sequential travel planning operations - such as unrelated user...a mixture of FREE OUTPUT 445 QLus
VALUABLE OUTPUT 447 (which requires user registration). TRIPS **Internet** site operators or proprietors normally require user registration or member enrollment as a prerequisite to... ...retail
consumer self-identification - which are desirable both on public and
commercial TRIPS online or **Internet** sites.

After each TRIPS sub-session in one component Sub-system, the TRIPS
software next... enrolled member, has entered a valid password, or
otherwise is qualified to utilize the TRIPS

Internet or online site, and so forth.

This determination is made consulting the database for registered...software script. Such a
revolving animation -- provided on the'home page" of a TRIPS online/**Internet** site, as a promotional and user education tool -- can include a collection of TRIPS travel... in FIGURE 4 at 417 under "Places". Therefore, in a well developed TRIPS online or **Internet** system, the Geographic Subsystem includes at least the following software capabilities: (1) a map display graphic user **interface** enabling the TRIPS user to zoom to different scale maps with variable resolution or levels...local restaurants, as arranged and presented by a preferred TRIPS
embodiment. The underlying map display **interface** 589 indicates a previously computed route between user-selected geographic points by highlighting of
recommended ...departure or arrival times/dates, and so forth. Preferred online TRIPS embodiments such as an **Internet** travel reservation information planning system - are
designed to facilitate flexible and independent user consideration and...scheduled or estimated departures or arrivals, and so forth.

For example, preferred TRIPS online or **Internet** embodiment enable retail
consumers to begin and/or continue travel planning sessions by the entry...travel scheduling concerns and variables can be readily managed and accommodated by the Temporal
Subsystem **interface** of a preferred TRIPS embodiments, as delineated in
FIGURE 6.

Having presumably already entered at...a a police station indicated by a badge symbol which can also serve graphic user **interface** or GUI functions on map displays), and a DATA SOURCE (e.g., indication of whether...or accounting operations through interactions at 802 and the connector "I" corresponding to the TRIPS **Interface** & Interaction Bus. Heretofore, this **Interface** & Interaction Bus was depicted at 209 in FIGURE 2 and further described with reference to... ...FIGURE 8A outlines the preferred functions and data records involved in fully articulated online or **Internet** embodiments of the TRIPS invention. At 8060 USER/IVIEMBER LIST includes user registration or membership... ...entities, or other specified TRIPS individual or organizational clients or consumers. But, preferred online or **Internet** TRIPS embodiments accommodate an anonymous or unidentified audience as well as registered retail clients or... ...provides differential access/output to registered or identified users or members as opposed to anonymous **Internet** surfers or travel information shoppers. FREE OUTPUT of limited but inviting travel information is made...formulation for DIFFERENTIAL ACCESS/OUTPUT or FREE

versus VALUABLE OUTPUTS is determined by the TRIPS **web** site proprietor or operator, varying from virtual site to site and from time to time on a given TRIPS **Internet** site. One particular item of travel information might be FREE OUTPUT for some users, as... ...for another class of users, and/or after a certain period of time. Certain TRIPS **Internet** sites will offer more FREE OUTPUT to attract traffic and maximize their advertising audience. TRIPS... ...for the privileges and added advantages of enrolled status i.e. VALUABLE OUTPUT. Commercial TRIPS **Internet** or online sites can seek to attract "traffic" or expand their enrolled "audience" by offering...fee in the form of cyber-currency or online payment medium. Even for those TRIPS **Internet** sites which are cooperatively or publicly funded as online tourist bureaus providing "free" travel information... ...actually contemplate three DIFFERENTIAL ACCESS/OUTPUT levels. Firstly, in order to attract "traffic" or anonymous **Internet** "surfers", a prime level of FREE OUTPUT attracts an "audience" for the advertising offered on...can be required to register after spending a set amount of time "surfing" the TRIPS **Internet** site. TRIPS travel information and software functions can be preferably provided in part on CD... ...special offers which third-party providers paid to "post"or advertise, on a given TRIPS **Internet** site. Users must register, however, to obtain VALUABLE OUTPUT such as enhanced or detailed maps... ...can be implemented by function. Userdirected browsing or "manual" exploration can be allowed "free" to **Internet** 11surfers" or unregistered users for specified kinds of travel information, however, user registration is required... ...output reserved to enrolled or accountable users only. By these and equivalent means, TRIPS online/**Internet** site operators or proprietors can distinguish and modulate variable levels or
101
-WO 98/35311...that are offered, brokered or promoted by special coupon offers on the TRIPS online or **Internet** site.

At 816 in FIGURE SA, the Accounting Subsystem facilitates, tracks and
accounts for diverse... ...mailing or membership list of TRIPS registered users; access payments or subscription fees for TRIPS **Internet** site ratings information (i.e. current statistics on users' interest in particular locations, services, topics...and made available at the discretion of the operators and proprietors of TRIPS online or **Internet** sites -- for example: for planning the best or most profitable usage and pruning of various...meeting date/time entered by the user, and so forth.

TRIPS user sessions will often **generate travel plan** output including two or more map tickets for purposes of a particular trip or journey...by a simplified sub-menu, follow-up keystrokes, or other state-of-the-art user **interface** technologies for portable, compact, user
friendly, embedded, or "dumbed-down" computer devices for the consumer
market. Sub-menus, follow-up keystrokes or equivalent user **interface** means for further input specification distinguish between remote TRIPS user queries for, e.g.: car...and even voice recognition technology for TRIPS user inputs and selection, for a user
122
interface with minimal visual distraction for the vehicle driver. Text and graphics -for example, map displays...

Claims:

...14 The TRIPS as claimed in Claim 1 1 wherein said linking means is an
Internet link. 1 S. A travel reservation information and planning system (TRIPS) to enable an individual...to said transactional information.
57 The TRIPS as claimed in Claim 56 further comprising an **Internet** linking means for remote coupling of said TRIPS user and said computer means.

58 The...

4/3K/16 (Item 16 from file: 349) **Links**
PCT FULLTEXT

00368312
MULTIPLE CURRENCY TRAVEL RESERVATION INFORMATION MANAGEMENT SYSTEM AND METHOD
SYSTEME DE GESTION DE L'INFORMATION POUR L'ORGANISATION DE VOYAGES EN DES MONNAIES MULTIPLES ET PROCEDE CORRESPONDANT

Patent Applicant/Patent Assignee:

- **SYSTEM ONE INFORMATION MANAGEMENT L L C;**
  ; ;

	Country	Number	Kind	Date
Patent	WO	9708639	A1	19970306
Application	WO	96US13758		19960828
Priorities	US	95521354		19950830

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 10285

Detailed Description:

...referred to in
the travel industry as back office systems, have been
io developed to **interface** information from the CRS
(typically sent from the CRS in the form of an accounting
interface record ("AIR")) into a local database after a
ticket issues, so that the information can...travel data
30 to a corporation's main frame or internal computer, to,
for example, **interface** with the corporate general ledger.

Summary of the Invention
A new method and system of... and price associated with each segment, of
30 booking reservations for a selected segments, of
generating travel reservation information in response to
a request by the first or second locally operated
computer systems...selected
segment for booking, booking a reservation at the price
in the CRS for each **selected travel itinerary**,
representing the price of the travel segment in the

30 global currency, storing information regarding...land lines
30 30 to remotely maintained computer system 32. Computer
system 32 includes communication **interface** equipment 34,
computer 36, and a plurality of memory storage disks 38,
40, 42, 44 ...available
pertaining to this invention is whether or not the agency
requested that an accounting **interface** record ("AIR") be
generated automatically every time a reservation is
ticketed, An AIR is a... ...a
round-trip, non-stop flight includes a two segment, The
agent then selects the **best itinerary** and, thus, the best
segments and requests a reservation, step 120. Upon
receipt of the...the sources from the description of FIG, 3 above,
The system is also designed to **interface** with vendors 222
and allow them to provide expense, refund, and commission
35 information 224...above
could be altered to accept data manually or via
electronic systems such as the **Internet**, The system
described above could also be easily modified to provide
20 the ability to access other electronic services or
systems, such as the **Internet**,
The methods and systems described above could be
modified by one of ordinary skill in the art to **interface**
to a corporations main frame or internal computer system
25 to exchange information, For example...

Claims:

...segment and
price associated with each segment, (b) bookingreservations for a selected segments, (c)**generating travel reservation** information inresponse to a request from the first or secondlocally operated computer systems...
...segments and prices associated with each segment,(b) booking reservations for a selected segments,(c) **generating travel reservation** information inresponse to a request from the locally operatedcomputer system, and (d) detecting... ...segment andprices associated with each segment, (b) bookingreservations for a selected segments, (c)**generating travel reservation** information ...segments and prices associated with each segment,(b) booking reservations for a selected segments,(c) **generating travel reservation** information inres onse to a request from the locally operatedpcomputer system, and... ...selected segment, for booking,booking a reservation at the price in the CRSfor each **selected travel itinerary** ,representing the price of the segment in theglobal currency,storing information regarding the booked...

4/3K/17 (Item 17 from file: 349) **Links**
PCT FULLTEXT

00336434
A METHOD AND APPARATUS FOR SELECTING AN OPTION OR OPTIONS ON A COMPUTER SYSTEM
PROCEDE ET APPAREIL DE SELECTION D'UNE OPTION OU D'OPTIONS DANS UN SYSTEME INFORMATIQUE

Patent Applicant/Patent Assignee:

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  ; ;
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  ; ;
- **WHITEHEAD Neil**;
  ; ;
- **MEAD Pamela**;
  ; ;
- **SIMULA Stephen**;
  ; ;

	Country	Number	Kind	Date
Patent	WO	9618946	A1	19960620
Application	WO	95GB2944		19951215
Priorities	GB	94309445		19941216

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

Publication Language: English
Filing Language:
Fulltext word count: 4146

Detailed Description:

...recognised that the weakest link in any computer system
is the so called "man-machine **interface**". Computer systems are necessarily designed by computer literate people but most end-users will not... ...screen) displaying a few of the available options. Systems have been devised which attempt to **prioritise options** by ordering them according to frequency of utilisation - i.e. more frequently used options are...1 5 that corresponds to the icon numeral, that is to say, in order to **select travel options** key number "4" is depressed, for shops key number "2" and so on.

The second...

```
?  s s2 and (display?)(W)(travel)(W)(options)
Processing
          131   S2
      4557446   DISPLAY?
      3838736   TRAVEL
      3933313   OPTIONS
            9   DISPLAY?(W)TRAVEL(W)OPTIONS
S5          2   S S2 AND (DISPLAY?)(W)(TRAVEL)(W)(OPTIONS)

?  t s5/3,k/all
```

5/3K/1 (Item 1 from file: 349) **Links**
PCT FULLTEXT

00826096
INTEGRATED JOURNEY PLANNER
PLANIFICATEUR DE VOYAGE INTEGRE

Patent Applicant/Patent Assignee:

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  (Designated only for: US)
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64A Salisbury Road, Queen's Park, London NW6 6NR; GB; GB(Residence); GB(Nationality); (Designated only for: US)

- **SADLER Andrew John**
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	Country	Number	Kind	Date
Patent	WO	200159633	A1	20010816
Application	WO	2001GB441		20010202
Priorities	GB	20002985		20000209

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 16149

Detailed Description:

...CRSs because they enable customers 1 5 to have direct access to them via the **Internet**. Examples of companies currently providing these services are expedia.com ebookers.com, travelocity.com, previewiravel.com, biztravel.com. and thetrip.com. Whilst the on-line user **interface** has been improved to enable non-experienced browsers to use the system, each on-line... ...planning.

3o Recently, a few autoroute planning services have been created for use over the **Internet**.

11:@

Examples of these are mapquest.com, rriapblast.ccm and mapsonus.com. While successful and... ...is the first service to offer a complete European road route planning service over the **Internet**.

Germanv's national railwav (bahn.de) has set Lip an **Internet** Journey planning facility covering Continental Europe. The service offers only train planning, road jourrievs, for... ...Out different termini combinations until one combination a possible option.

provi
All of the above **Internet** 'ourney planners are limited to a single mode of transport and do not address any...made the task of data collection and svstem intearation difficult. Even the recent emergence of **Internet** based jourriev planners in Europe. which enable users to make bookings themselves directly, typically only ... ...Furthermore. the planner can be arranged to provide a real-time reservation service via the **Internet** such that the best trip can simply be booked by one mouse click.

The integrated...availability takes part simultaneously to routes construction and multiple route engines (road, timetable or direct **web** links') are called to provide the relevant information. Final 1 5 processing then delivers an ...to avoid a data access bottlenecks. Access to the information system by a plurality of **web** users 18 is provided via the **Internet** 20.

Each of the system databases IO, which have a flat file structure (though in... ...transport.

The load balancer 16 provides a buffer between the servers 12, 14 and the **Internet** 20 and acts to distribute service requests to the least busiest server 12. 14. This... ...Each of" the servers 12. 14 comprises a front server 22 which functions to create **web** M pages for displaying the results of the searches together with other **web** pages. Home pages which the user 1 8 accessing the system encounters first. are home pages of the **web** site hosted bv the ISP (**Internet** Service Provider). The front server 21. of each server 12, 14 is direct1v connected to... ...pricing information for some of the modes of transport for presenting as results to the **web** users 1 8.

A live link 28 to the Intemet2O is also provided and connected to the front server 22. The live link 28 uses a generic **web** engine (not shown) which communicates with other **web** sites using configuration files. The **web** engine is also responsible for supporting **Internet**
P I I
connections from the users 18 through the **Internet** 20 to the system. The physical links are through a combination of **web** http links using standard communications over, for example, a 2Mbit/second high-speed link to the hostin(ISP and direct ISDN connections to the desired remote locations. The **web** engine is configured to maintain use connections of a short time duration for each **web** site access from the users I 8 to the system rather than holding these connections ... ...between the user and the system are achieved without the use of ai @v cookies (**Internet** user identifying code segments).

The live link 28 enables timetablf, information which is not held in the local system database IO to be accessed remotely using the **Internet** 20. In the present embodiment, the links are to timetabling databases of a train operator... ...provi l
link 28 also provides access to other sources of related inforination on the **Internet** 20 such as local guide maps and local cinema listings which may also be presented to the **web** user 1 8.

Referring to Figure 2. the way in which the system operates to... ...to the svstem commences at 30 with a user I 8 requesting access over the **Internet** 20 to the system's home page using its URL (Universal Resource Locator). In

1... ...the multi-modal travel information svstem.

The submitted form is received at 34 from the **Internet** 20 by the load balancer 16 of the svstem. The load balancer 16 routes the...and 48 respecti-@,7elv and involve making use of the live link 28 to the **Internet** 20. This is because the required timetable and other desired information relating to a par... ...databases 10. The service providers' on-line travel information databases 50 are accessed via the **Internet** 20 and queries are made based upon the content of the route records being processed... ...case.

all of the information requested by the coach service provider is supplied by the **web** engine until the desired information is retrieved. However, the train service provider's database is accessed directiv by the **web** engine using an ISDN line connection. This connection is made directlv into the service provider's database which bypasses the standard **Internet** entrance used bv most other enquiries and hence speeds up access times.

This is only...are then displayed back at 56 to the user 18 by being presented on an **Internet** results page of the multi-modal travel information system's **web** site. The order of displaying the possible journey options is determined in the ranking stage... ...requests were made. Journey booking is achieved by using the live link 28 to the **Internet** 20 to access the on-line booking services provided by the service providers. Some of... ...an alternative 'ourney option.

Further services which are available to the user 1 8 include **Internet** links to city guides, infori-nation regarding location of route services avai able for any... the user starts the process by requesting a home page at 30. On reaching the **web** site, the user enters one location at 200, either a start or an end point namely via **Internet**, however, in this case there ai-e multiple different airline sites which are connected to... ...I 0 A further difference is that the present embodiment is also linked via the **Internet** to an on-line booking site such as e-bookers.com. This connection advanta eously...

Claims:

...stores comprise remote databases accessible by via a 1 5 communications network such as the **Internet** and the sending means is arranged to transmit some of the requests to these remote... ...oumey planner according to any of Claims 28 to 58, further
icomprising means for **displaying travel options** determined by the planner to the user.
60 An integrated planner according to Claim 59, further comprising
means for selecting one of the **displayed travel options**. and booking means receptive to the selecting means for carrying out on-line booking of... ...to Claim 60 or 6 1, further comprising means for obtaininu information related to the **selected travel option**, such as weatherZ:@reports or city guides, the obtaining means being arranged to retrieve the desiredl t@infori-nation over a communications network such as the **Internet**.43. A method of providing integrated joumey travel information between two userselected locations. the...

5/3K/2 (Item 2 from file: 349) **Links**
PCT FULLTEXT

00800764
GRAPHICAL USER INTERFACE FOR TRAVEL PLANNING SYSTEM
INTERFACE UTILISATEUR GRAPHIQUE POUR SYSTEME DE PROGRAMMATION DE VOYAGES
GRAPHICAL USER **INTERFACE** FOR TRAVEL PLANNING SYSTEM
INTERFACE UTILISATEUR GRAPHIQUE POUR SYSTEME DE PROGRAMMATION DE VOYAGES

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  (For all designated states except: US)
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  (Designated only for: US)

Patent Applicant/Inventor:

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  24A Union Street, Cambridge, MA 02141; US; US(Residence); US(Nationality); (Designated only for: US)

Legal Representative:

- **MALONEY Denis G(agent)**
  Fish & Richardson, P.C., 225 Franklin Street, Boston, MA 02110-2804; US;

	Country	Number	Kind	Date
Patent	WO	200133471	A2-A3	20010510
Application	WO	2000US41657		20001027
Priorities	US	99431679		19991101

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 2966

English Abstract:

A graphical user **interface** for a travel planning system is described. The graphical user **interface** is implemented as a **web** page and includes a tabular region of the graphical user **interface** that displays summarized travel options and comprises a plurality of cells that act as controls. The **interface** also includes a second region that displays **selected travel options** resulting from filtering a set of travel options in accordance with a control actuated in...

French Abstract:

La presente invention concerne une **interface** utilisateur graphique pour systeme de programmation de voyages. Cette **interface** utilisateur graphique est mise en oeuvre sous forme d'une page **Web** et comprend une region tabulaire qui affiche des options de voyage sommaires et comprend plusieurs cellules qui jouent le role de commandes. L'**interface** comprend egalement une seconde region qui affiche des options de voyage selectionnees, resultant du filtrage...

Detailed Description:

GRAPHICAL USER **INTERFACE** FOR TRAVEL PLANNING SYSTEM
BACKGROUND
This invention relates generally to computerized travel planning systems.

Travel... ...geographic scheduling and pricing information. In particular, travel planning systems that operate over the **Internet** are known. Some computer travel planning systems, such as **Internet** sites, generally produce a set of planning options, or itineraries for the traveller to consider... ...important to the traveller.

SUMMARY
According to an aspect of the invention, a graphical user **interface** for a travel planning system includes a tabular region of the graphical user **interface** that displays summarized travel options and comprises a plurality of cells that act as controls and a second region that displays **selected travel options** resulting from filtering a set of travel options in accordance with a control actuated in the tabular region.

According to a further aspect of the invention, a method for **displaying travel options** includes compartmentalizing travel options into bins according to a

set of criteria. The invention has... ...more aspect of the present invention.

With a summary table as part of a user **interface** to the travel planning system, travellers can select individual bins inorder to focus on a... ...that specific travel option. The summary table can appears in the top frame of a **web** browser.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a block diagram of a client server travel planning system particularly operable over the **Internet**.

FIG. 2 is a diagram of a query screen for a graphical user **interface** implemented as a **web** page from a **web** browser.

FIGS. 3-5 are diagrams of **web** pages depicting results of executing a query for a round trip based on information entered through the query screen of FIG. 2.

FIGS. 6 and 7 are diagrams of **web** pages depicting details of travel options provided in the **web** pages of FIGS.

3

DESCRIPTION

Referring to FIG. 1, a travel planning system 10 is ... ...in copending U.S. Patent 10 Application Serial No.09/109,873, entitled "Graphical User **Interface** for Travel Planning System", filed on July 2, 1998 by Carl G. DeMarcken et al... ...and incorporated herein by reference. Other travel planning systems such as those on 15 the **Internet** can also be used.

The scheduler process 16 provides itineraries to a faring process 18... ...set of pricing solutions is obtain from a user entering data in a graphical user **interface** as will be described below. In addition, the set of pricing solutions 25 are also displayed to the user through the graphical user **interface**.

Referring now to FIG. 2. a **web** page 50 that is part of a graphical user **interface** for the client process 36 is shown. The **web** page 50 allows the user to construct a query 30 which can be executed by the server process 16 to produce flight plan options for the user.

The **web** page 50 includes a query table 52 which is a tab table 54 here comprised...a user to provide a 20 complex arrangement of segments corresponding to multisegmented flights.

The **web** page 50 also allows for entry of passenger information such as the number of adults... ...infants which may be important in determining the fare 25 price for a ticket. The **web** page 50 also allows a user to have the server process check seat availability on... ...return travel options for which there is seat availability.

Referring now to FIG. 3, a **web** page 70 that depicts results from the server process 16 executing a query entered via the query page (FIG. 2) is shown. The **web** page 70, includes a table 72 that summarizes travel options. The travel option summary table... ...as shown in FIGS. 4 and 5.

A general procedure to construct the graphical user **interface** is given below.

1) Obtain list of query-specific travel options.

2) For each criteria...used within the interior cells or at the edges of the table.

The graphical user **interface** is populated by obtaining a list of query-specific travel options. For each criteria the...

Claims:

CLAIMS

A graphical user **interface** for a travel planningsystem comprises:a tabular region of the graphical user **interface**5 that displays summarized travel options and comprises aplurality of cells that act as controls;a second region that displays **selected traveloptions** resulting from filtering a set of travel options inaccordance with a control actuated in the tabular region.

2 The graphical user **interface** of claim 1 wherein the controls in the tabular region are arranged in a rectangularmanner.15 3. The graphical user **interface** of claim 1 wherein thecontrols in the tabular region are arranged in a column ... ...accordance with a summary20 travel option corresponding to the control.

4 The graphical user **interface** of claim 1 wherein the controls in the tabular region are arranged in rows and... ...with a summary travel optioncorresponding to the selected control.30 5. The graphical user **interface** of claim 1 wherein thecontrols in the tabular region are arranged in rows and... ...options corresponding to the intersection of theselected row and column.

6 The graphical user **interface** of claim 1 wherein the controls are links to routines that invoke an appropriateenumeration algorithm.10 7. The graphical user **interface** of claim 1 wherein the**interface** is implemented as a **web** page in a **web** browser andthe controls are hyperlinks to the enumeration routines.

8 The graphical user **interface** of claim 1 wherein the

15 tabular region having the controls are further arranged as... ...an airline tab, an airporttab and a flight time tab.
9 The graphical user **interface** of claim 1 wherein the
20 graphical user **interface** is represented in a first **web** pageand the results region displays itineraries and includeslinks that can invoke a second **web** page to display details ofthe itineraries.25 10. A method for **displaying travel options** comprises:compartmentalizing travel options into 'bins',according to a set of criteria.
11 The method...

?